NVLAP LAB CODE 200707-0

ETSI ES 203 021-1 V2.1.1 (2005-08)
ETSI ES 203 021-2 V2.1.2 (2006-01)
ETSI ES 203 021-3 V2.1.2 (2006-01)

MEASUREMENT AND TEST REPORT

For

Xingtel Xiamen Electronics Co., Ltd.

Xingtel Building, Chuangxin Rd, Torch Hi-tech Ind. District Xiamen 361006, PR China

Model: XL-2095IDM; TK4040

Report Type: Original Report	**Product Type:** Corded Phone
Test Engineer:	Jack Wang
Report Number:	RSZ09112301
Report Date:	2009-12-10
Reviewed By:	Lisa Zhu EMC Engineer
Prepared By:	Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008

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TBR21 REQUIRMENTS

Compliance Test Report

Test Specification: ETSI ES 203 021-1 V2.1.1 (2005-08)
ETSI ES 203 021-2 V2.1.2 (2006-01)
ETSI ES 203 021-3 V2.1.2 (2006-01)

Description: Access and Terminals (AT);
Harmonized basic attachment requirements for Terminals for connection to analogue interfaces of the Telephone Networks;
Update of the technical contents of
TBR 021, EN 301 437, TBR 015, TBR 017;
Part 1: General aspects
Part 2: Basic transmission and protection of the network from harm
Part 3: Basic Interworking with the Public Telephone Networks

Report/Job Number	1000273
Job Reference	RSZ09112301
Customer	Xingtel Xiamen Electronics Co., Ltd.
Product	Corded Phone
M/N:	XL-2095IDM; TK4040
Report Prepared By	Jack Wang
Position	Test Engineer
Date Prepared	2009-12-07
Report Authorised By	Lisa Zhu
Position	EMC Manager
Date Authorised	2009-12-10

Total Number of Pages in this report (including this page): 118

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1. – LABORATORY DETAILS

Laboratory Name:	Bay Area Compliance Laboratories Corp. (BACL)
Laboratory Address:	1274 Anvilwood Avenue, Sunnyvale, CA 94089, USA
Laboratory Telephone :	408-732 9162
Laboratory Fax:	408-732 9164
Laboratory E-mail:	johnc@baclcorp.com
Laboratory Website:	www.baclcorp.com
Contact Name:	John Chan

2. – CUSTOMER DETAILS

Customer Name:	Xingtel Xiamen Electronics Co., Ltd.
Customer Address:	Xingtel Building, Chuangxin Rd, Torch Hi-tech Ind. District Xiamen 361006, PR China
Customer Telephone:	Simon Liu
Customer Fax:	+86-592-5625929/ +86-592-6036442
Contact Name	+86-592-6037860

Manufacturer Name:	Xingtel Xiamen Electronics Co.,Ltd.
Customer Address:	Xingtel Building, Chuangxin Rd, Torch Hi-tech Ind. District Xiamen 361006, PR China

Notes:

3. – EQUIPMENT UNDER TEST

Product Type:	Corded Phone
Product Model:	XL-2095IDM

*Note: The serial product model *XL-2095IDM; TK4040.* We select *XL-2095IDM* to test, and both of the models are electrically identical, only their difference is the model names, which was explained in the attached declaration letter.

Samples Submitted for Test

Sample Number	Sample Ref.	Date Logged	Description	Model Number	Serial Number	Category
1	RSZ09112301	10/7/2009	Corded phone	XL-2095IDM; TK4040	/	EUT

Modifications for Sample Number: 1

Modification Number	Modification Description	Reason for Modification	Modification Date
0	As Submitted	/	/

4. – ENVIRONMENTAL DATA

All measurements were made within the climatic conditions specified in ETSI ES 203 021-1 V2.1.1 (2005-08), ETSI ES 203 021-2 V2.1.2 (2006-01), and ETSI ES 203 021-3 V2.1.2 (2006-01).

5. – TEST EQUIPMENT UTILISED

System Type: PSTN21, Product Code: PRD010, Revision Number: 1.0, Serial Number: 0016.

6. – MEASUREMENT UNCERTAINTY

The test equipment utilized is maintained and calibrated to ensure that measurement uncertainties fall within the limits specified in ADLNB document GN/WG2/1 "Guidance Notes On Measurement Uncertainty" dated 19 March 1998.

7. – TEST REPORT SUMMARY

A summary of the test status of the product under test with respect to each test requirement of the standard is provided in section **9** on page **8** and page **9** of this report.

Detailed test results are presented in section **10** following page **10** of this report.

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8. – CONDITIONS TABLE

ETSI ES 203 021-1 V2.1.1 (2005-08)

The EUT has been declared to support the following features.		
Reference	**Condition**	**Supported By EUT**
C.1.	Is the TE intended for use on the PSTN?	Yes
C.2.	Is the TE intended for 2-wire analogue leased lines (A2O and A2S)?	No
C.3.	Is the TE intended for 4-wire analogue leased lines (A4O and A4S)?	No

ETSI ES 203 021-2 V2.1.2 (2006-01)

The EUT has been declared to support the following features.		
Reference	**Condition**	**Supported By EUT**
C.1.	Is the TE intended for 2-wire analogue leased lines?	Yes
C.2.	Is the TE intended for 4-wire analogue leased lines?	No
C.3.	Is the TE intended the connection to the PSTN?	Yes
C.4.	Is the TE intended to have a connection to earth?	No
C.5.	Is the TE intended to be in loop state?	Yes
C.6.	Is the TE intended for call answer?	Yes
C.7.	Is the TE intended for call set-up?	Yes
C.8.	Is the TE intended for dialing with DTMF?	Yes
C.9.	Is the TE intended for automatic dialing with dial tone detection?	No
C.10.	Is the TE intended for use in receiving mode?	Yes
C.11.	Is the TE intended for use in transmitting mode?	Yes
C.12.	Is the TE only intended to function on lines that provide more than 18mA of line current?	Yes
C.13.	Is the TE intended for making internally generated automatically repeated call attempts?	No

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ETSI ES 203 021-3 V2.1.2 (2006-01)

The EUT has been declared to support the following features.		
Reference	**Condition**	**Supported By EUT**
C.1.	Is the TE intended to interwork on a low voltage line?	Yes
C.2.	Is the TE intended to have a connection to earth?	No
C.3.	Is the TE intended to be in the loop state?	Yes
C.4.	Is the TE intended for call answer?	Yes
C.5.	Is the TE intended for call set-up?	Yes
C.6.	Is the TE intended for dialling with DTMF?	Yes
C.7.	Is the TE intended for automatic dialling without dial tone detection?	No
C.8.	Is the TE intended for automatic dialling with dial tone detection?	No
C.9.	Is the TE intended for automatic controlled signaling tone duration?	Yes
C.10.	Is the TE intended for automatic controlled signaling pause duration?	Yes
C.11.	Is the TE only intended to function on lines that provide more than 18 mA of line current?	Yes
C.12.	Is the TE intended for Pulse Dialling?	Yes
C.13.	Is the TE intended for Register Recall?	Yes
C14	Is the TE able to go off-hook during a ringing pulse?	Yes

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9. – TEST RECORD

ETSI ES 203 021-1 V2.1.1 (2005-08)

Clause	Clause Title	Test Status
Clause 4.2.1	6-contact plug (or socket) as specified in TIA/EIA/IS-968 [1]	Pass
Clause 4.2.2(a)	8-contact plug as specified in ISO/IEC 8877 [3]	Not Required
Clause 4.2.2(b)	Contacts for termination of solid wire conductors	Not Required
Clause 4.2.2(c)	Unterminated solid wire conductors	Not Required
Clause 4.2.3(a)	8-contact plug as specified in ISO/IEC 8877 [3]	Not Required
Clause 4.2.3(b)	Contacts for termination of solid wire conductors	Not Required
Clause 4.2.3(c)	Unterminated solid wire conductors	Not Required

ETSI ES 203 021-2 V2.1.2 (2006-01)

Clause	Clause Title	Test Status
Clause 4.1.1	Impedance Unbalance About Earth In The Quiescent State	Not Required
Clause 4.1.2.1	Longitudinal Conversion Loss In The Loop State	Not Required
Clause 4.1.2.2	Output Signal Balance	Not Required
Clause 4.2.1	Mean Sending Level	Pass
Clause 4.2.2	Instantaneous Voltage	Pass
Clause 4.2.3	Sending Level In A 10Hz Bandwidth	Pass
Clause 4.2.4	Sending Levels Between 4.3kHz and 200kHz	Pass
Clause 4.2.5	Sending Level From 200kHz to 30MHz	Pass
Clause 4.3	Power feeding limitations	Pass
Clause 4.4	Automatically Repeated Call Attempts	Not Required

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ETSI ES 203 021-3 V2.1.2 (2006-01)

Clause	Clause Title	Test Status
Clause 4.3	Polarity	Pass
Clause 4.4.1	DC Resistance	Pass
Clause 4.4.2.1	Impedance	Pass
Clause 4.4.2.2	Transient Response	Pass
Clause 4.4.2.3	DC Current	Pass
Clause 4.4.3	Resistance To Earth	Not Required
Clause 4.4.4	Impedance	Pass
Clause 4.5	Ringing Signal Detector Sensitivity	Pass
Clause 4.6.1	Acceptance Of Breaks In The Loop In A Call Attempt	Pass
Clause 4.6.2	Loop Current Characteristics	Pass
Clause 4.6.3	On-hook to off-hook transition with ringing without DC	Pass
Clause 4.6.4	Ring Trip	Pass
Clause 4.7.1	DC Characteristics	Pass
Clause 4.7.2	Impedance	Pass
Clause 4.7.3	Resistance To Earth	Pass
Clause 4.8.1.1	Dialling Without Dial Tone Detection	Not Required
Clause 4.8.1.2	Dialling With Dial Tone Detection	Not Required
Clause 4.8.2.1	Frequency combinations	Pass
Clause 4.8.2.2.1	Absolute levels	Pass
Clause 4.8.2.2.2	Level difference	Pass
Clause 4.8.2.3	Unwanted Frequency Components	Pass
Clause 4.8.2.4	Tone Duration	Pass
Clause 4.8.2.5	Pause Duration	Pass
Clause 4.8.3	Pulse dialling	Pass
Clause 4.8.4	Register recall	Pass
Clause 4.8.5	Call attempt on a low voltage line	Pass
Clause 4.9	Transition From Loop To Quiescent State	Pass

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10. – DETAILED TEST RESULTS

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.2, Physical Characteristics Of The Connection To The PSTN					
ID	4208	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ES 203021-1 v2.1.1 August 2005				
Purpose Of Test	To check that single line EUT shall provide a connector either as a plug or socket compatible with FCC 47 CFR 68.500 clause (a) or clause (b)				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class		**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 09:32:17	**Temp** (℃)	25	**Humidity (%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Test Condition:

Physical Characteristics Of The Connection To The PSTN

The EUT shall provide a connector either as a plug or as a socket. The connector, if a plug, shall be capable of connecting with the miniature 6-position sockt as specified in FCC 47. CFR 68.500 [1] clause (b) and if a socket, shall be capable of connecting with a miniature 6-position plug as specified in FCC 47.CFR 68.500[1] clause (a).

This connector is often referred to as RJ11/12

The contact assignments for the connector shall be as follows:

Contact Number	Contact Assignment
1	Unspecified
2	Unspecified
3/4	TCP
5	Unspecified
6	Unspecified

Check by visual inspection that the EUT is supplied with a connection as described above. If satisfied, click the status button below to indicate "Pass", if not click button to indicate "Fail"

Status

Pass

Note: Above requirement applies only to "Single Line" EUT. For Multi-Line EUT, alternative connection arrangements are allowed. For Multi-line equipment, click status box to indicate "Pass"

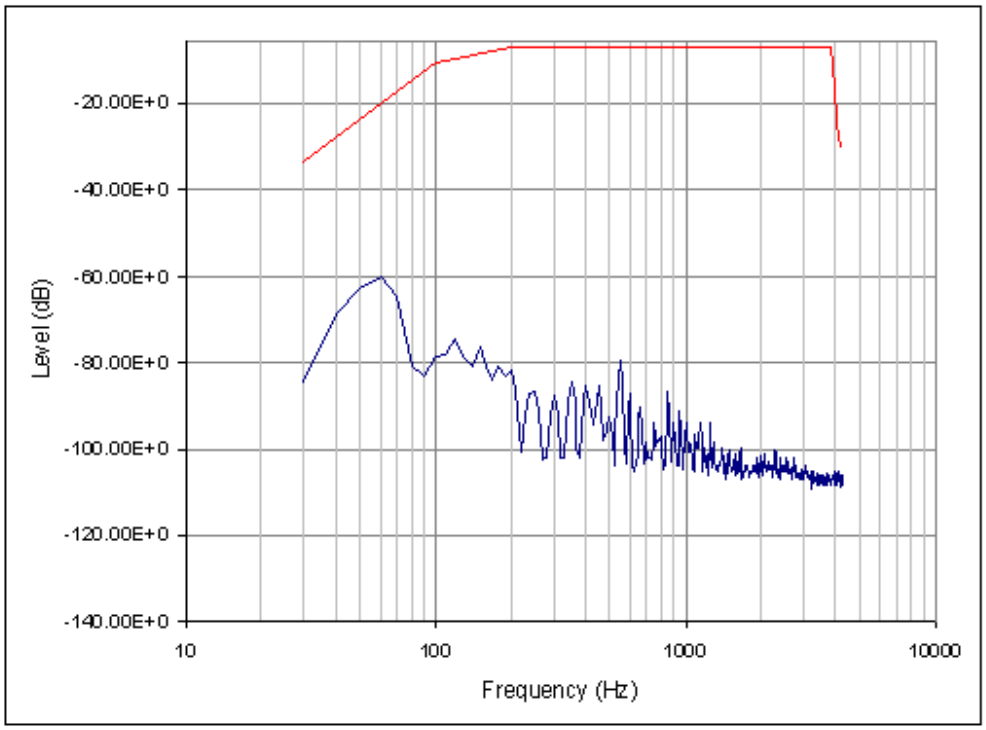
Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.2.1, Mean Sending Level & Clause 4.2.3, Sending Level In A 10Hz Bandwidth

ID	4223	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that the mean sending level in the frequency range 200Hz to 3800Hz over a one minute period shall not be greater than -9.7dBV when the EUT interface is terminated with the reference impedance ZR. To check that the voltages measured in a 10Hz bandwidth comply with the ES203021-2 limits mask.				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: Clause 4.2.1 and Clause 4.2.3: Feed Resistance 2300Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 13:49:56	**Temp** (℃)	25	**Humidity (%)**	45
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass



Test Condition 1, Clause 4.2.1 and Clause 4.2.3 : Feed Resistance 2300Ohms, Normal Polarity

DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 2.8k Ohms
EUT was Off Hook, EUT generating signal: Off Hook (on line) quiet, Terminating Impedance: 270R+(750R//0.15uF)

Total Power In Band Measurements Units: dBV, with reference to 1 Vrms
RMS Integration Time Used For Measurements: 100ms

Mean Power Level measured in the band: 200 Hz, To 3.8k Hz, With A Flat Weighting

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.2.1, Mean Sending Level & Clause 4.2.3, Sending Level In A 10Hz Bandwidth

ID	4223	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that the mean sending level in the frequency range 200Hz to 3800Hz over a one minute period shall not be greater than -9.7dBV when the EUT interface is terminated with the reference impedance ZR. To check that the voltages measured in a 10Hz bandwidth comply with the ES203021-2 limits mask.				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: Clause 4.2.1 and Clause 4.2.3: Feed Resistance 2300Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 13:49:56	**Temp** (℃)	25	**Humidity (%)**	45
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Measured Over A Period Of 60 Secs
Measured Mean Power Level Must Be <= -9.7 dB
Measured Mean Power: -28.19 dB
Measured Mean Power Status Against Upper Limit: **Pass**

Power Spectrum Measurements Units: dBV, with reference to 1 Vrms
Power Spectrum measured in the band: 30 Hz, To 4.3k Hz, Measured With A RBW Of: 10 Hz
Measured Over A Period Of 10 Secs
Power Spectrum Type Is Average, Power Spectrum Limits Are Absolute
Measured Power Spectrum Status Against Upper Limit: **Pass**

Test Condition Status: Pass

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.2.1, Mean Sending Level & Clause 4.2.3, Sending Level In A 10Hz Bandwidth

ID	4223	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that the mean sending level in the frequency range 200Hz to 3800Hz over a one minute period shall not be greater than -9.7dBV when the EUT interface is terminated with the reference impedance ZR. To check that the voltages measured in a 10Hz bandwidth comply with the ES203021-2 limits mask				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: Clause 4.2.1 and Clause 4.2.3: Feed Resistance 2300Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 13:49:56	**Temp** (℃)	25	**Humidity (%)**	45

Test Details

TestCondition 1

Test Description: Clause 4.2.1 and Clause 4.2.3: Feed Resistance 2300Ohms, Normal Polarity
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Line Current: 0 (0 = do not set, 1 = set)
Feed Resistance: 2.3k Ohms
Set Feed Resistance: 1 (0 = Do Not Set, 1 = Set)
Feed Circuit Polarity: Normal Polarity
Feed Circuit Inductance Per Leg: 10H
Feedbridge DC Blocking Capacitance Per Leg: 500u F
During Test EUT Is Off Hook
EUT Is Off Hook When DC Line Current Exceeds: 5m A
Termination Impedance Rs: 270 Ohms
Termination Impedance Rp: 750 Ohms
Termination Impedance Cp: 0.15u F
External Analyser Connection Enabled During Test: 0 (0 = disabled, 1 = enabled)
rms measurements integrated over period of: 100ms
Total Power Measurement Units: dBV
Total Power Reference Voltage Level for dBV measurements: 1 Vrms
Total Power Reference termination for dBm measurements: 600 Ohms
Conduct Mean Total Power Measurement: 1 (0 = Do Not Test, 1 = Test)
Total Mean Power Level Minimum Frequency: 200 Hz
Total Mean Power Level Maximum Frequency 3.8k Hz
Total Mean Power Averaged Over A Total Period Of: 60 Secs
Weighting Curve To Apply To Total Mean Power Measurements: Flat
Apply Total Mean Power Level Lower Test Limit: 0 (0 = Do Not Apply, 1 = Evaluate)
Measured Total Mean Power Must be <= -9.7 dB
Apply Total Mean Power Level Upper Test Limit: 1 (0 = Do Not Apply, 1 = Evaluate)
Conduct Spectral Density Measurement 1 (0 = Do Not Test, 1 = Test)
Measurement Units Used For Spectral Density Test: dBV
Reference Voltage Level For dBV Spectral Density Measurements: 1 Vrms
Reference Termination For dBm Spectral Density Measurements: 600 Ohms
Spectral Density Measurements Minimum Frequency: 30 Ohms
Spectral Density Measurements Maximum Frequency: 4.3k Hz

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.2.1, Mean Sending Level & Clause 4.2.3, Sending Level In A 10Hz Bandwidth

ID	4223	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that the mean sending level in the frequency range 200Hz to 3800Hz over a one minute period shall not be greater than -9.7dBV when the EUT interface is terminated with the reference impedance ZR. To check that the voltages measured in a 10Hz bandwidth comply with the ES203021-2 limits mask				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: Clause 4.2.1 and Clause 4.2.3: Feed Resistance 2300Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 13:49:56	**Temp** (℃)	25	**Humidity (%)**	45

Test Details

Measurement Bandwidth For Spectral Density Measurements: 10 Hz
Spectral Density Measurements Taken Over A Period Of: 10 Secs
Spectral Density Measurement Type: Average
Spectral Density Limits Are: Absolute
Apply Spectral Density Lower Test Limits: 0 (0 = Do Not Apply, 1 = Apply)
Apply Spectral Density Upper Test Limits: 1 (0 = Do Not Apply, 1 = Apply)
For Spectral Density Test Lower Limits, Please see test results
For Spectral Density Test Upper limits, Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Mean Power Level: 0.11 dB
Measured Max Power Level: N/A dB
Measured Instantaneous Voltage: N/A %
Measured Power Spectrum Within 20% Of Maximum Upper Limits Value: 0.10 dB
Measured Power Spectrum Within 20% Of Minimum Upper Limits Value: 0.10 dB
Measured Power Spectrum Within 20% Of Maximum Lower Limits Value: N/A dB
Measured Power Spectrum Within 20% Of Minimum Lower Limits Value: N/A dB

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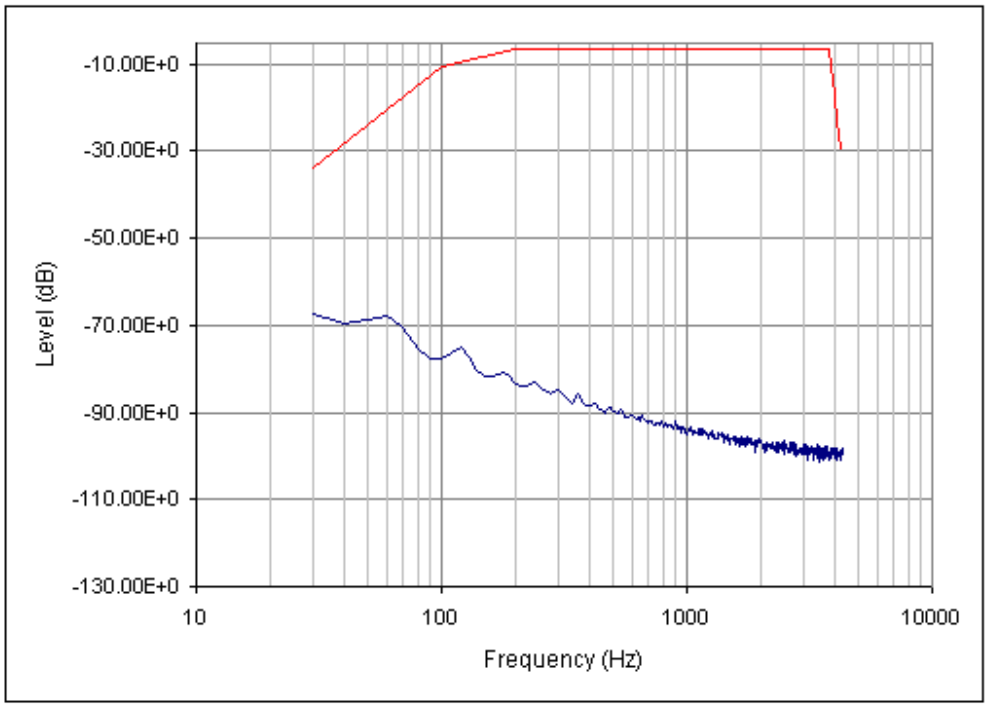
Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.2.1, Mean Sending Level & Clause: Clause 4.2.3, Sending Level In A 10Hz Bandwidth

ID	4223	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that the mean sending level in the frequency range 200Hz to 3800Hz over a one minute period shall not be greater than -9.7dBV when the EUT interface is terminated with the reference impedance ZR. To check that the voltages measured in a 10Hz bandwidth comply with the ES203021-2 limits mask.				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: Clause 4.2.1 and Clause 4.2.3: Feed Resistance 400Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 13:49:56	**Temp** (℃)	25	**Humidity (%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass



Test Condition 2, Clause 4.2.1 and Clause 4.2.3: Feed Resistance 400Ohms, Normal Polarity

DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 400 Ohms
EUT was Off Hook, EUT generating signal: Off Hook (on line) quiet, Terminating Impedance: 270R+(750R//0.15uF)

Total Power In Band Measurements Units: dBV, with reference to 1 Vrms
RMS Integration Time Used For Measurements: 100ms

Mean Power Level measured in the band: 200 Hz, To 3.8k Hz, With A Flat Weighting

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.2.1, Mean Sending Level & Clause: Clause 4.2.3, Sending Level In A 10Hz Bandwidth

ID	4223	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that the mean sending level in the frequency range 200Hz to 3800Hz over a one minute period shall not be greater than -9.7dBV when the EUT interface is terminated with the reference impedance ZR. To check that the voltages measured in a 10Hz bandwidth comply with the ES203021-2 limits mask.				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: Clause 4.2.1 and Clause 4.2.3: Feed Resistance 400Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 13:49:56	**Temp** (℃)	25	**Humidity (%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Measured Over A Period Of 60 Secs
Measured Mean Power Level Must Be <= -9.7 dB
Measured Mean Power: -35.3 dB
Measured Mean Power Status Against Upper Limit: **Pass**

Power Spectrum Measurements Units: dBV, with reference to 1 Vrms
Power Spectrum measured in the band: 30 Hz, To 4.3k Hz, Measured With A RBW Of: 10 Hz
Measured Over A Period Of 10 Secs
Power Spectrum Type Is Average, Power Spectrum Limits Are Absolute
Measured Power Spectrum Status Against Upper Limit: **Pass**

Test Condition Status: Pass

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.2.1, Mean Sending Level & Clause: Clause 4.2.3, Sending Level In A 10Hz Bandwidth

ID	4223	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that the mean sending level in the frequency range 200Hz to 3800Hz over a one minute period shall not be greater than -9.7dBV when the EUT interface is terminated with the reference impedance ZR. To check that the voltages measured in a 10Hz bandwidth comply with the ES203021-2 limits mask.				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: Clause 4.2.1 and Clause 4.2.3: Feed Resistance 400Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 13:49:56	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

TestCondition 2

Test Description: Clause 4.2.1 and Clause 4.2.3: Feed Resistance 400Ohms, Normal Polarity
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Line Current: 0 (0 = do not set, 1 = set)
Feed Resistance: 400 Ohms
Set Feed Resistance: 1 (0 = Do Not Set, 1 = Set)
Feed Circuit Polarity: Normal Polarity
Feed Circuit Inductance Per Leg: 10H
Feedbridge DC Blocking Capacitance Per Leg: 500u F
During Test EUT Is Off Hook
EUT Is Off Hook When DC Line Current Exceeds: 5m A
Termination Impedance Rs: 270 Ohms
Termination Impedance Rp: 750 Ohms
Termination Impedance Cp: 0.15u F
External Analyser Connection Enabled During Test: 0 (0 = disabled, 1 = enabled)
rms measurements integrated over period of: 100ms
Total Power Measurement Units: dBV
Total Power Reference Voltage Level for dBV measurements: 1 Vrms
Total Power Reference termination for dBm measurements: 600 Ohms
Conduct Mean Total Power Measurement: 1 (0 = Do Not Test, 1 = Test)
Total Mean Power Level Minimum Frequency: 200 Hz
Total Mean Power Level Maximum Frequency 3.8k Hz
Total Mean Power Averaged Over A Total Period Of: 60 Secs
Weighting Curve To Apply To Total Mean Power Measurements: Flat
Apply Total Mean Power Level Lower Test Limit: 0 (0 = Do Not Apply, 1 = Evaluate)
Measured Total Mean Power Must be <= -9.7 dB
Apply Total Mean Power Level Upper Test Limit: 1 (0 = Do Not Apply, 1 = Evaluate)
Conduct Spectral Density Measurement 1 (0 = Do Not Test, 1 = Test)
Measurement Units Used For Spectral Density Test: dBV
Reference Voltage Level For dBV Spectral Density Measurements: 1 Vrms
Reference Termination For dBm Spectral Density Measurements: 600 Ohms
Spectral Density Measurements Minimum Frequency: 30 Ohms
Spectral Density Measurements Maximum Frequency: 4.3k Hz

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.2.1, Mean Sending Level & Clause: Clause 4.2.3, Sending Level In A 10Hz Bandwidth

ID	4223	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that the mean sending level in the frequency range 200Hz to 3800Hz over a one minute period shall not be greater than -9.7dBV when the EUT interface is terminated with the reference impedance ZR. To check that the voltages measured in a 10Hz bandwidth comply with the ES203021-2 limits mask.				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: Clause 4.2.1 and Clause 4.2.3: Feed Resistance 400Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 13:49:56	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

Measurement Bandwidth For Spectral Density Measurements: 10 Hz
Spectral Density Measurements Taken Over A Period Of: 10 Secs
Spectral Density Measurement Type: Average
Spectral Density Limits Are: Absolute
Apply Spectral Density Lower Test Limits: 0 (0 = Do Not Apply, 1 = Apply)
Apply Spectral Density Upper Test Limits: 1 (0 = Do Not Apply, 1 = Apply)
For Spectral Density Test Lower Limits, Please see test results
For Spectral Density Test Upper limits, Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Mean Power Level: 2.53 dB
Measured Max Power Level: N/A dB
Measured Instantaneous Voltage: N/A %
Measured Power Spectrum Within 20% Of Maximum Upper Limits Value: 0.10 dB
Measured Power Spectrum Within 20% Of Minimum Upper Limits Value: 0.10 dB
Measured Power Spectrum Within 20% Of Maximum Lower Limits Value: N/A dB
Measured Power Spectrum Within 20% Of Minimum Lower Limits Value: N/A dB

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.2.2 , Instantaneous Voltage						
ID	4226	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-2 v2.1.2 January 2006					
Purpose Of Test	To Check The Peak To Peak Voltage Of The TE Whilst Generating Representative Signals					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Off Hook (on line) quiet					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 14:01:02	**Temp**	25	**Humidity**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass

Test Condition 1, 2300Ohms Feed Resistance, Normal Polarity

DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 2.3k Ohms
EUT was Off Hook, EUT generating signal: Off Hook (on line) quiet, Terminating Impedance: 270R+(750R//0.15uF)

Maximum Instantaneous Voltage pktopk measured in the band: 200 Hz, To 3.8k Hz
Measured Over A Period Of 10 Secs
Measured Instantaneous Voltage Must Be <= 5 Vpktopk
Measured Instantaneous Voltage: 0.2381 Vpktotpk
Measured Instantaneous Voltage Status Against Upper Limit: **Pass**

Test Condition Status: Pass

Test Condition 2, 230 Ohms Feed Resistance, Reverse Polarity

DC Feed Voltage: 50 Vdc, Reverse Polarity, DC Feed Resistance: 230 Ohms
EUT was Off Hook, EUT generating signal: Off Hook (on line) quiet, Terminating Impedance: 270R+(750R//0.15uF)

Maximum Instantaneous Voltage pktopk measured in the band: 200 Hz, To 3.8k Hz
Measured Over A Period Of 10 Secs
Measured Instantaneous Voltage Must Be <= 5 Vpktopk
Measured Instantaneous Voltage: 1.048 Vpktotpk
Measured Instantaneous Voltage Status Against Upper Limit: **Pass**

Test Condition Status: Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.2.2, Instantaneous Voltage					
ID	4226	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To Check The Peak To Peak Voltage Of The TE Whilst Generating Representative Signals				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:01:02	**Temp**	25	**Humidity**	56

Test Details

TestCondition 1

Test Description: 2300Ohms Feed Resistance, Normal Polarity
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Line Current: 0 (0 = do not set, 1 = set)
Feed Resistance: 2.3k Ohms
Set Feed Resistance: 1 (0 = Do Not Set, 1 = Set)
Feed Circuit Polarity: Normal Polarity
Feed Circuit Inductance Per Leg: 10H
Feedbridge DC Blocking Capacitance Per Leg: 500u F
During Test EUT Is Off Hook
EUT Is Off Hook When DC Line Current Exceeds: 5m A
Termination Impedance Rs: 270 Ohms
Termination Impedance Rp: 750 Ohms
Termination Impedance Cp: 0.15u F
External Analyser Connection Enabled During Test: 0 (0 = disabled, 1 = enabled)
rms measurements integrated over period of: 100ms
Total Power Measurement Units: dBV
Total Power Reference Voltage Level for dBV measurements: 1 Vrms
Total Power Reference termination for dBm measurements: 600 Ohms
Total Mean Power Averaged Over A Total Period Of: 60 Secs
Conduct Instantaneous Voltage Test: 1 (0 = Do Not Test, 1 = Test)
Instantaneous Voltage Test Minimum Frequency: 200 Hz
Instantaneous Voltage Test Maximum Frequency: 3.8k Hz
Instantaneous Voltage Evaluated Over 10 Secs
Apply Measured Instantaneous Voltage Lower Limit: 0 (0 = Do Not Apply, 1 = Apply)
Measured Instantaneous Voltage Must Be <= 5 Vpktopk
Apply Instantaneous Voltage Upper Limit: 1 (0 = Do Not Apply, 1 = Apply)
For Spectral Density Test Lower Limits, Please see test results
For Spectral Density Test Upper limits, Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Mean Power Level: N/A dB
Measured Max Power Level: N/A dB
Measured Instantaneous Voltage: 1.16 %
Measured Power Spectrum Within 20% Of Maximum Upper Limits Value: N/A dB
Measured Power Spectrum Within 20% Of Minimum Upper Limits Value: N/A dB
Measured Power Spectrum Within 20% Of Maximum Lower Limits Value: N/A dB
Measured Power Spectrum Within 20% Of Minimum Lower Limits Value: N/A dB

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.2.2, Instantaneous Voltage

ID	4226	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To Check The Peak To Peak Voltage Of The TE Whilst Generating Representative Signals				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:01:02	**Temp**	25	**Humidity**	56

Test Details

TestCondition 2

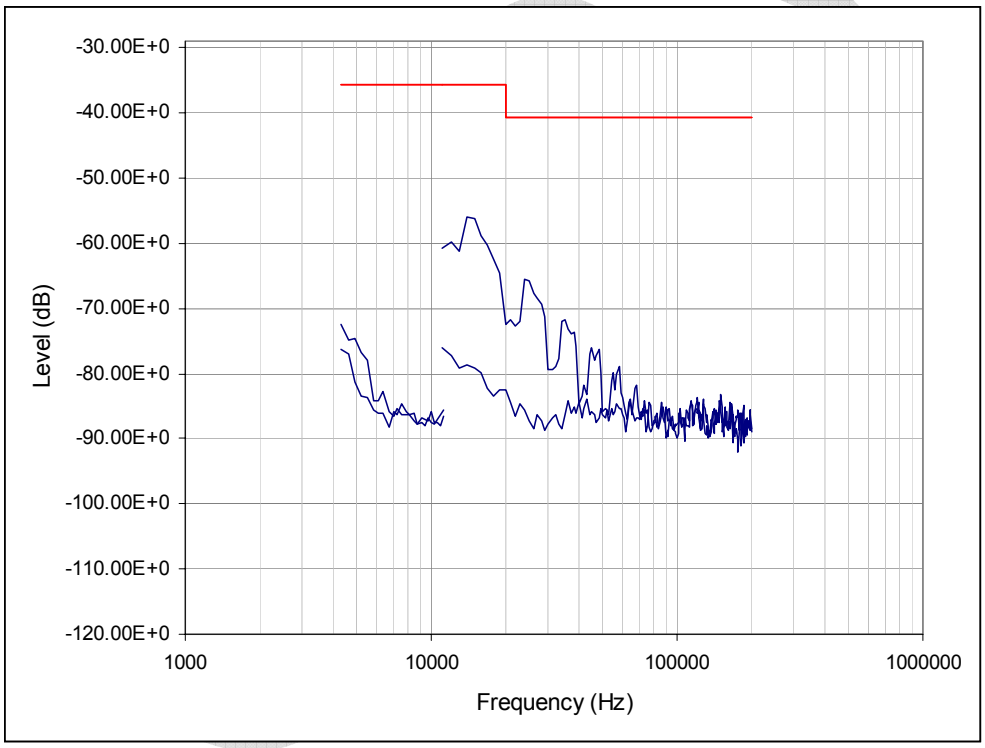
Test Description: 230 Ohms Feed Resistance, Reverse Polarity
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Line Current: 0 (0 = do not set, 1 = set)
Feed Resistance: 230 Ohms
Set Feed Resistance: 1 (0 = Do Not Set, 1 = Set)
Feed Circuit Polarity: Reverse Polarity
Feed Circuit Inductance Per Leg: 10H
Feedbridge DC Blocking Capacitance Per Leg: 500u F
During Test EUT Is Off Hook
EUT Is Off Hook When DC Line Current Exceeds: 5m A
Termination Impedance Rs: 270 Ohms
Termination Impedance Rp: 750 Ohms
Termination Impedance Cp: 0.15u F
External Analyser Connection Enabled During Test: 0 (0 = disabled, 1 = enabled)
rms measurements integrated over period of: 100ms
Total Power Measurement Units: dBV
Total Power Reference Voltage Level for dBV measurements: 1 Vrms
Total Power Reference termination for dBm measurements: 600 Ohms
Total Mean Power Averaged Over A Total Period Of: 60 Secs
Conduct Instantaneous Voltage Test: 1 (0 = Do Not Test, 1 = Test)
Instantaneous Voltage Test Minimum Frequency: 200 Hz
Instantaneous Voltage Test Maximum Frequency: 3.8k Hz
Instantaneous Voltage Evaluated Over 10 Secs
Apply Measured Instantaneous Voltage Lower Limit: 0 (0 = Do Not Apply, 1 = Apply)
Measured Instantaneous Voltage Must Be <= 5 Vpktopk
Apply Instantaneous Voltage Upper Limit: 1 (0 = Do Not Apply, 1 = Apply)
For Spectral Density Test Lower Limits, Please see test results
For Spectral Density Test Upper limits, Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Mean Power Level: N/A dB
Measured Max Power Level: N/A dB
Measured Instantaneous Voltage: 1.16 %
Measured Power Spectrum Within 20% Of Maximum Upper Limits Value: N/A dB
Measured Power Spectrum Within 20% Of Minimum Upper Limits Value: N/A dB
Measured Power Spectrum Within 20% Of Maximum Lower Limits Value: N/A dB
Measured Power Spectrum Within 20% Of Minimum Lower Limits Value: N/A dB

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.2.4, Sending Levels Between 4.3kHz and 200kHz						
ID	4227	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-2 v2.1.2 January 2006					
Purpose Of Test	To check that "out of band" frequency components during DTMF dialling are within limits					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Off Hook (on line) quiet					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 14:21:23	**Temp** (℃)	25	**Humidity (%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 1, 4.3kHz to 12kHz, 2300Ohms Feed Resistance, Normal Polarity

DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 2.3k Ohms
EUT was Off Hook, EUT generating signal: Off Hook (on line) quiet, Terminating Impedance: 270R+(750R//0.15uF)

Power Spectrum Measurements Units: dBV, with reference to 1 Vrms
Power Spectrum measured in the band: 4.3k Hz, To 12k Hz, Measured With A RBW Of: 300 Hz
Measured Over A Period Of 10 Secs
Power Spectrum Type Is Peak Hold, Power Spectrum Limits Are Absolute
Measured Power Spectrum Status Against Upper Limit: **Pass**

Test Condition Status: Pass

Test Condition 2, 12kHz to 200kHz, 2300 ohms Feed Resistance, Normal Polarity

DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 2.3k Ohms

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.2.4, Sending Levels Between 4.3kHz and 200kHz						
ID	4227	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-2 v2.1.2 January 2006					
Purpose Of Test	To check that "out of band" frequency components during DTMF dialling are within limits					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Off Hook (on line) quiet					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 14:21:23	**Temp** (℃)	25	**Humidity (%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass

EUT was Off Hook, EUT generating signal: Off Hook (on line) quiet, Terminating Impedance: 270R+(750R//0.15uF)

Power Spectrum Measurements Units: dBV, with reference to 1 Vrms
Power Spectrum measured in the band: 12k Hz, To 200k Hz, Measured With A RBW Of: 1k Hz
Measured Over A Period Of 10 Secs
Power Spectrum Type Is Peak Hold, Power Spectrum Limits Are Absolute
Measured Power Spectrum Status Against Upper Limit: **Pass**

Test Condition Status: Pass

Test Condition 3, 4.3kHz to 12kHz, 400 Ohms Feed Resistance, Reverse Polarity

DC Feed Voltage: 50 Vdc, Reverse Polarity, DC Feed Resistance: 400 Ohms
EUT was Off Hook, EUT generating signal: Off Hook (on line) quiet, Terminating Impedance: 270R+(750R//0.15uF)

Power Spectrum Measurements Units: dBV, with reference to 1 Vrms
Power Spectrum measured in the band: 4.3k Hz, To 12k Hz, Measured With A RBW Of: 300 Hz
Measured Over A Period Of 10 Secs
Power Spectrum Type Is Peak Hold, Power Spectrum Limits Are Absolute
Measured Power Spectrum Status Against Upper Limit: **Pass**

Test Condition Status: Pass

Test Condition 4, 12kHz to 200kHz, 400 Ohms Feed Resistance, Reverse Polarity

DC Feed Voltage: 50 Vdc, Reverse Polarity, DC Feed Resistance: 400 Ohms
EUT was Off Hook, EUT generating signal: Off Hook (on line) quiet, Terminating Impedance: 270R+(750R//0.15uF)

Power Spectrum Measurements Units: dBV, with reference to 1 Vrms
Power Spectrum measured in the band: 12k Hz, To 200k Hz, Measured With A RBW Of: 1k Hz
Measured Over A Period Of 10 Secs
Power Spectrum Type Is Peak Hold, Power Spectrum Limits Are Absolute
Measured Power Spectrum Status Against Upper Limit: **Pass**

Test Condition Status: Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.2.4, Sending Levels Between 4.3kHz and 200kHz					
ID	4227	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that "out of band" frequency components during DTMF dialling are within limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:21:23	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

TestCondition 1

Test Description: 4.3kHz to 12kHz, 2300Ohms Feed Resistance, Normal Polarity
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Line Current: 0 (0 = do not set, 1 = set)
Feed Resistance: 2.3k Ohms
Set Feed Resistance: 1 (0 = Do Not Set, 1 = Set)
Feed Circuit Polarity: Normal Polarity
Feed Circuit Inductance Per Leg: 10H
Feedbridge DC Blocking Capacitance Per Leg: 500u F
During Test EUT Is Off Hook
EUT Is Off Hook When DC Line Current Exceeds: 5m A
Termination Impedance Rs: 270 Ohms
Termination Impedance Rp: 750 Ohms
Termination Impedance Cp: 0.15u F
External Analyser Connection Enabled During Test: 0 (0 = disabled, 1 = enabled)
rms measurements integrated over period of: 100ms
Conduct Spectral Density Measurement 1 (0 = Do Not Test, 1 = Test)
Measurement Units Used For Spectral Density Test: dBV
Reference Voltage Level For dBV Spectral Density Measurements: 1 Vrms
Reference Termination For dBm Spectral Density Measurements: 600 Ohms
Spectral Density Measurements Minimum Frequency: 4.3k Ohms
Spectral Density Measurements Maximum Frequency: 12k Hz
Measurement Bandwidth For Spectral Density Measurements: 300 Hz
Spectral Density Measurements Taken Over A Period Of: 10 Secs
Spectral Density Measurement Type: Peak Hold
Spectral Density Limits Are: Absolute
Apply Spectral Density Lower Test Limits: 0 (0 = Do Not Apply, 1 = Apply)
Apply Spectral Density Upper Test Limits: 1 (0 = Do Not Apply, 1 = Apply)
For Spectral Density Test Lower Limits, Please see test results
For Spectral Density Test Upper limits, Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Mean Power Level: N/A dB
Measured Max Power Level: N/A dB
Measured Instantaneous Voltage: N/A %
Measured Power Spectrum Within 20% Of Maximum Upper Limits Value: 0.11 dB
Measured Power Spectrum Within 20% Of Minimum Upper Limits Value: 0.10 dB
Measured Power Spectrum Within 20% Of Maximum Lower Limits Value: N/A dB

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.2.4, Sending Levels Between 4.3kHz and 200kHz					
ID	4227	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that "out of band" frequency components during DTMF dialling are within limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:21:23	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

Measured Power Spectrum Within 20% Of Minimum Lower Limits Value: N/A dB

TestCondition 2

Test Description: 12kHz to 200kHz, 2300 ohms Feed Resistance, Normal Polarity
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Line Current: 0 (0 = do not set, 1 = set)
Feed Resistance: 2.3k Ohms
Set Feed Resistance: 1 (0 = Do Not Set, 1 = Set)
Feed Circuit Polarity: Normal Polarity
Feed Circuit Inductance Per Leg: 10H
Feedbridge DC Blocking Capacitance Per Leg: 500u F
During Test EUT Is Off Hook
EUT Is Off Hook When DC Line Current Exceeds: 5m A
Termination Impedance Rs: 270 Ohms
Termination Impedance Rp: 750 Ohms
Termination Impedance Cp: 0.15u F
External Analyser Connection Enabled During Test: 0 (0 = disabled, 1 = enabled)
rms measurements integrated over period of: 100ms
Conduct Spectral Density Measurement 1 (0 = Do Not Test, 1 = Test)
Measurement Units Used For Spectral Density Test: dBV
Reference Voltage Level For dBV Spectral Density Measurements: 1 Vrms
Reference Termination For dBm Spectral Density Measurements: 600 Ohms
Spectral Density Measurements Minimum Frequency: 12k Ohms
Spectral Density Measurements Maximum Frequency: 200k Hz
Measurement Bandwidth For Spectral Density Measurements: 1k Hz
Spectral Density Measurements Taken Over A Period Of: 10 Secs
Spectral Density Measurement Type: Peak Hold
Spectral Density Limits Are: Absolute
Apply Spectral Density Lower Test Limits: 0 (0 = Do Not Apply, 1 = Apply)
Apply Spectral Density Upper Test Limits: 1 (0 = Do Not Apply, 1 = Apply)
For Spectral Density Test Lower Limits, Please see test results
For Spectral Density Test Upper limits, Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Mean Power Level: N/A dB
Measured Max Power Level: N/A dB
Measured Instantaneous Voltage: N/A %
Measured Power Spectrum Within 20% Of Maximum Upper Limits Value: 0.11 dB
Measured Power Spectrum Within 20% Of Minimum Upper Limits Value: 0.10 dB
Measured Power Spectrum Within 20% Of Maximum Lower Limits Value: N/A dB

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.2.4, Sending Levels Between 4.3kHz and 200kHz

ID	4227	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that "out of band" frequency components during DTMF dialling are within limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:21:23	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

Measured Power Spectrum Within 20% Of Minimum Lower Limits Value: N/A dB

TestCondition 3

Test Description: 4.3kHz to 12kHz, 400 Ohms Feed Resistance, Reverse Polarity
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Line Current: 0 (0 = do not set, 1 = set)
Feed Resistance: 400 Ohms
Set Feed Resistance: 1 (0 = Do Not Set, 1 = Set)
Feed Circuit Polarity: Reverse Polarity
Feed Circuit Inductance Per Leg: 10H
Feedbridge DC Blocking Capacitance Per Leg: 500u F
During Test EUT Is Off Hook
EUT Is Off Hook When DC Line Current Exceeds: 5m A
Termination Impedance Rs: 270 Ohms
Termination Impedance Rp: 750 Ohms
Termination Impedance Cp: 0.15u F
External Analyser Connection Enabled During Test: 0 (0 = disabled, 1 = enabled)
rms measurements integrated over period of: 100ms
Conduct Spectral Density Measurement 1 (0 = Do Not Test, 1 = Test)
Measurement Units Used For Spectral Density Test: dBV
Reference Voltage Level For dBV Spectral Density Measurements: 1 Vrms
Reference Termination For dBm Spectral Density Measurements: 600 Ohms
Spectral Density Measurements Minimum Frequency: 4.3k Ohms
Spectral Density Measurements Maximum Frequency: 12k Hz
Measurement Bandwidth For Spectral Density Measurements: 300 Hz
Spectral Density Measurements Taken Over A Period Of: 10 Secs
Spectral Density Measurement Type: Peak Hold
Spectral Density Limits Are: Absolute
Apply Spectral Density Lower Test Limits: 0 (0 = Do Not Apply, 1 = Apply)
Apply Spectral Density Upper Test Limits: 1 (0 = Do Not Apply, 1 = Apply)
For Spectral Density Test Lower Limits, Please see test results
For Spectral Density Test Upper limits, Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Mean Power Level: N/A dB
Measured Max Power Level: N/A dB
Measured Instantaneous Voltage: N/A %
Measured Power Spectrum Within 20% Of Maximum Upper Limits Value: 0.11 dB
Measured Power Spectrum Within 20% Of Minimum Upper Limits Value: 0.10 dB
Measured Power Spectrum Within 20% Of Maximum Lower Limits Value: N/A dB

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.2.4, Sending Levels Between 4.3kHz and 200kHz

ID	4227	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that "out of band" frequency components during DTMF dialling are within limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:21:23	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

Measured Power Spectrum Within 20% Of Minimum Lower Limits Value: N/A dB

TestCondition 4

Test Description: 121kHz to 200kHz, 400 Ohms Feed Resistance, Reverse Polarity
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Line Current: 0 (0 = do not set, 1 = set)
Feed Resistance: 400 Ohms
Set Feed Resistance: 1 (0 = Do Not Set, 1 = Set)
Feed Circuit Polarity: Reverse Polarity
Feed Circuit Inductance Per Leg: 10H
Feedbridge DC Blocking Capacitance Per Leg: 500u F
During Test EUT Is Off Hook
EUT Is Off Hook When DC Line Current Exceeds: 5m A
Termination Impedance Rs: 270 Ohms
Termination Impedance Rp: 750 Ohms
Termination Impedance Cp: 0.15u F
External Analyser Connection Enabled During Test: 0 (0 = disabled, 1 = enabled)
rms measurements integrated over period of: 100ms
Conduct Spectral Density Measurement 1 (0 = Do Not Test, 1 = Test)
Measurement Units Used For Spectral Density Test: dBV
Reference Voltage Level For dBV Spectral Density Measurements: 1 Vrms
Reference Termination For dBm Spectral Density Measurements: 600 Ohms
Spectral Density Measurements Minimum Frequency: 12k Ohms
Spectral Density Measurements Maximum Frequency: 200k Hz
Measurement Bandwidth For Spectral Density Measurements: 1k Hz
Spectral Density Measurements Taken Over A Period Of: 10 Secs
Spectral Density Measurement Type: Peak Hold
Spectral Density Limits Are: Absolute
Apply Spectral Density Lower Test Limits: 0 (0 = Do Not Apply, 1 = Apply)
Apply Spectral Density Upper Test Limits: 1 (0 = Do Not Apply, 1 = Apply)
For Spectral Density Test Lower Limits, Please see test results
For Spectral Density Test Upper limits, Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Mean Power Level: N/A dB
Measured Max Power Level: N/A dB
Measured Instantaneous Voltage: N/A %
Measured Power Spectrum Within 20% Of Maximum Upper Limits Value: 0.11 dB
Measured Power Spectrum Within 20% Of Minimum Upper Limits Value: 0.10 dB
Measured Power Spectrum Within 20% Of Maximum Lower Limits Value: N/A dB

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.2.4, Sending Levels Between 4.3kHz and 200kHz					
ID	4227	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that "out of band" frequency components during DTMF dialling are within limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:21:23	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

Measured Power Spectrum Within 20% Of Minimum Lower Limits Value: N/A dB

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.2.5, Sending Level From 200kHz to 30MHz					
ID	4228	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that sending level of TE are within limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: 200kHz to 30MHz, 2300 Ohms				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:30:23	**Temp** (℃)	25	**Humidity (%)**	56
		Tested With Auto Test Run (EUT Master): No			

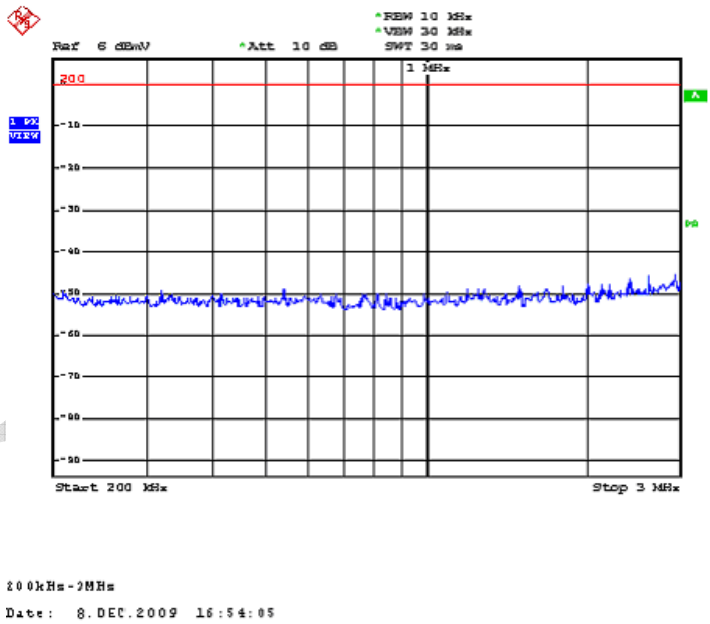
Test Result

Overall Test Status: Pass

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.2.5, Sending Level From 200kHz to 30MHz					
ID	4228	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that sending level of TE are within limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: 200kHz to 30MHz, 2300 Ohms				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:30:23	**Temp** (℃)	25	**Humidity (%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

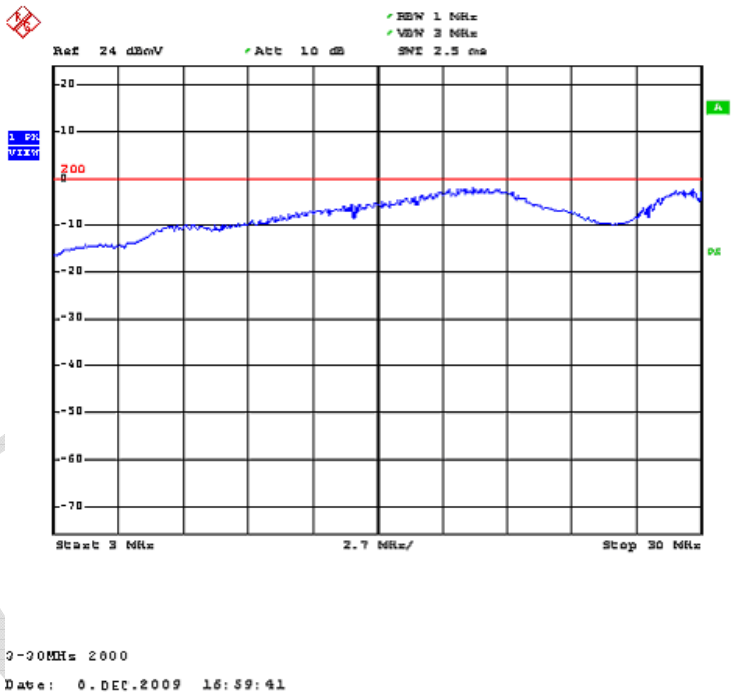
Overall Test Status: Pass



Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.2.5, Sending Level From 200kHz to 30MHz						
ID	4228	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-2 v2.1.2 January 2006					
Purpose Of Test	To check that sending level of TE are within limits					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Off Hook (on line) quiet, Test Condition 1: 200kHz to 30MHz, 2300 Ohms					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 14:30:23	**Temp** (℃)	25	**Humidity (%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 1, 200 kHz to 30 MHz, 2300 Ohms

DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 2.3k Ohms
EUT was Off Hook, EUT generating signal: Off Hook (on line) quiet, Terminating Impedance: 270R+(750R//0.15uF)

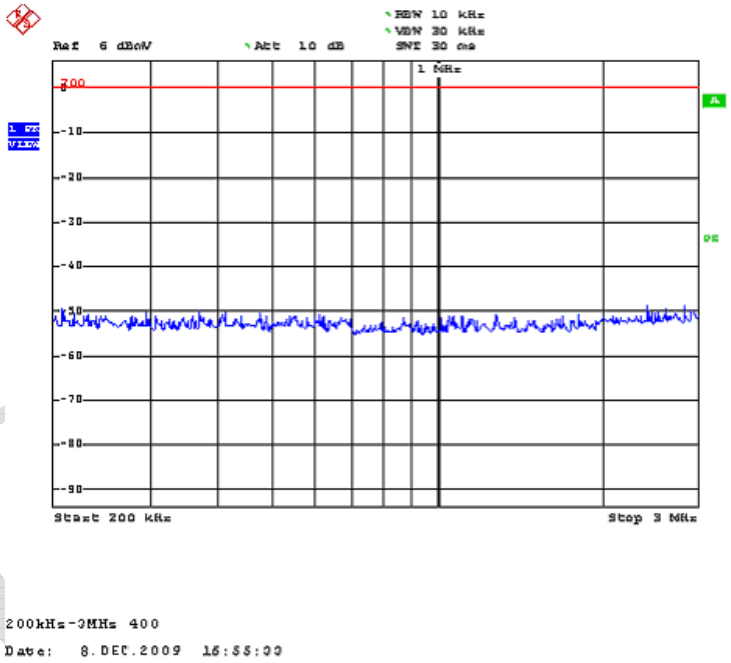
Power Spectrum Measurements Units: dBV, with reference to 1 Vrms
Power Spectrum measured in the band: 200k Hz, To 3 MHz, Measured With A RBW Of: 10 kHz
Power Spectrum measured in the band: 3 MHz, To 30 MHz, Measured With A RBW Of: 1 MHz
Measured Over A Period Of 10 Secs
Power Spectrum Type Is Peak Hold, Power Spectrum Limits Are Absolute
Measured Power Spectrum Status Against Upper Limit: **Pass**

Test Condition Status: Pass

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.2.5, Sending Level From 200kHz to 30MHz					
ID	4228	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that sending level of TE are within limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: 200kHz to 30MHz, 400 Ohms				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:30:23	**Temp** (℃)	25	**Humidity (%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

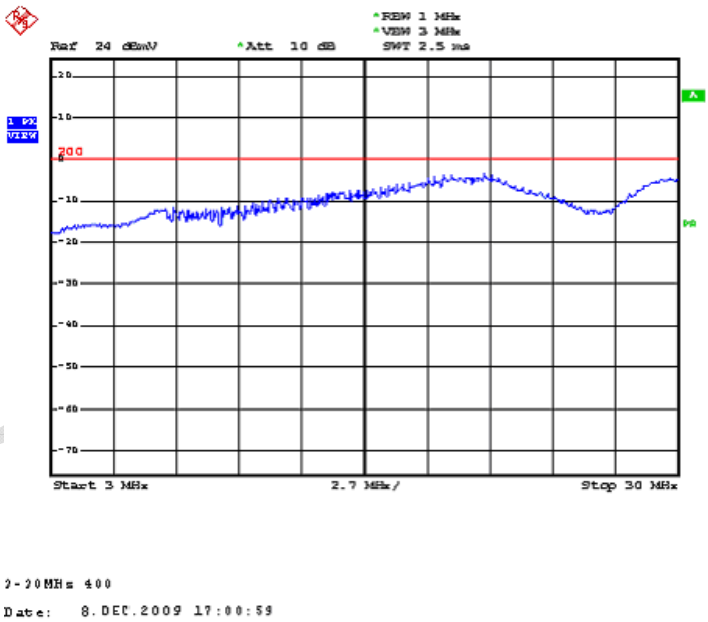
Overall Test Status: Pass



Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.2.5, Sending Level From 200kHz to 30MHz					
ID	4228	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-2 v2.1.2 January 2006				
Purpose Of Test	To check that sending level of TE are within limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (on line) quiet, Test Condition 1: 200kHz to 30MHz, 400 Ohms				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:30:23	**Temp** (℃)	25	**Humidity (%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass



Test Condition 2, 200 kHz to 30 MHz, 400 Ohms

DC Feed Voltage: 50 Vdc, DC Feed Resistance: 400 Ohms
EUT was Off Hook, EUT generating signal: Off Hook (on line) quiet, Terminating Impedance: 270R+(750R//0.15uF)

Power Spectrum Measurements Units: dBV, with reference to 1 Vrms
Power Spectrum measured in the band: 200k Hz, To 3 MHz, Measured With A RBW Of: 10 kHz
Power Spectrum measured in the band: 3 MHz, To 30 MHz, Measured With A RBW Of: 1 MHz
Measured Over A Period Of 10 Secs
Power Spectrum Type Is Peak Hold, Power Spectrum Limits Are Absolute
Measured Power Spectrum Status Against Upper Limit: **Pass**

Test Condition Status: Pass

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.3, Power feeding limitations						
ID	4229	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-2 v2.1.2 January 2006					
Purpose Of Test	To verify that the TE does not feed the TN interface and the current through 300 Ohms is less than 1mA					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State						
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 14:30:23	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass

Test Condition 1, Test Condition 1: 50Vdc Normal Polarity

DC Feed Voltage: 50 Vdc, DC Feed Resistance: 300 Ohms, DC Feed Polarity: Normal Polarity
DC Current Must Be <= 1m A
Measured DC Current: <1m A
DC Current Status Against Upper Limit: **Pass**

Measured Resistance: >1M Ohms

Test Condition Status: Pass

Test Condition 2, Test Condition 2: 50Vdc Reverse Polarity

DC Feed Voltage: 50 Vdc, DC Feed Resistance: 300 Ohms, DC Feed Polarity: Reverse Polarity
DC Current Must Be <= 0.6m A
Measured DC Current: <0.1m A
DC Current Status Against Upper Limit: **Pass**

Measured Resistance: >1M Ohms

Test Condition Status: Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.3, Polarity						
ID	4209	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check that the EUT Conforms to the requirement of ES203021-3 for both polarities of line feeding voltage					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State						
Test Class		**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 09:33:16	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass

Test Condition:

Polarity
EUT must conform to the requirements of ES203021-3 for both polarities of line feeding voltage
The PSTN21 ES203021-3 test procedures automatically switch line feeding polarity during testing. As such, if the EUT is found to comply with all other relevant requirements of ES203021-3 then click the status box below to indicate "Pass"
Status
Pass

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)						
Clause 4.4.1, DC Resistance						
ID	4210	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check whether the EUT presents a resistance of at least 4 MOhm when tested at 25Vdc, 50Vdc and 100Vdc in the quiescent state					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State						
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 09:41:58	**Temp (℃)**	25	**Humidity (%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass

Test Condition 1, Test Condition 1: 25Vdc Normal Polarity
DC Feed Voltage: 25 Vdc, Feed Voltage Polarity: Normal Polarity
Resistance Must Be >= 4M Ohms
Measured Resistance: 5.644M Ohms
Test Condition Status Pass

Test Condition 2, Test Condition 2: 25Vdc Reverse Polarity
DC Feed Voltage: 25 Vdc, Feed Voltage Polarity: Reverse Polarity
Resistance Must Be >= 4M Ohms
Measured Resistance: 5.628M Ohms
Test Condition Status Pass

Test Condition 3, Test Condition 3: 50Vdc Normal Polarity
DC Feed Voltage: 50 Vdc, Feed Voltage Polarity: Normal Polarity
Resistance Must Be >= 4M Ohms
Measured Resistance: 4.869M Ohms
Test Condition Status Pass

Test Condition 4, Test Condition 4: 50Vdc Reverse Polarity
DC Feed Voltage: 50 Vdc, Feed Voltage Polarity: Reverse Polarity
Resistance Must Be >= 4M Ohms
Measured Resistance: 4.857M Ohms
Test Condition Status Pass

Test Condition 5, Test Condition 5: 100Vdc Normal Polarity
DC Feed Voltage: 100 Vdc, Feed Voltage Polarity: Normal Polarity
Resistance Must Be >= 4M Ohms
Measured Resistance: 4.539M Ohms
Test Condition Status Pass

Test Condition 6, Test Condition 6: 100Vdc Reverse Polarity
DC Feed Voltage: 100 Vdc, Feed Voltage Polarity: Reverse Polarity
Resistance Must Be >= 4M Ohms
Measured Resistance: 4.536M Ohms
Test Condition Status Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)					
Clause 4.4.1, DC Resistance					
ID	4210	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the EUT presents a resistance of at least 4 MOhm when tested at 25Vdc, 50Vdc and 100Vdc in the quiescent state				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 09:41:58	**Temp (℃)**	25	**Humidity (%)**	56

Test Details

TestCondition 1

Test Description Test Condition 1: 25Vdc Normal Polarity
DC Feed Voltage 25 Vdc
DC Current limit 1 mAdc
Feed Voltage Polarity Normal Polarity
Feed Resistance 20k Ohms
Time Waited Before Making Measurement 30 Seconds
Measurement Taken For 1 Seconds
Test Result Must Be Greater Than 4M Ohms
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured DC Resistance Within 25% Of Test Limit: 1.6%

TestCondition 2

Test Description Test Condition 2: 25Vdc Reverse Polarity
DC Feed Voltage 25 Vdc
DC Current limit 1 mAdc
Feed Voltage Polarity Reverse Polarity
Feed Resistance 20k Ohms
Time Waited Before Making Measurement 30 Seconds
Measurement Taken For 1 Seconds
Test Result Must Be Greater Than 4M Ohms
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured DC Resistance Within 25% Of Test Limit: 1.6%

TestCondition 3

Test Description Test Condition 3: 50Vdc Normal Polarity
DC Feed Voltage 50 Vdc
DC Current limit 1 mAdc
Feed Voltage Polarity Normal Polarity
Feed Resistance 20k Ohms
Time Waited Before Making Measurement 30 Seconds
Measurement Taken For 1 Seconds
Test Result Must Be Greater Than 4M Ohms
Measurement Uncertainty Information

COPY

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)

Clause 4.4.1, DC Resistance

ID	4210	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the EUT presents a resistance of at least 4 MOhm when tested at 25Vdc, 50Vdc and 100Vdc in the quiescent state				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 09:41:58	**Temp (℃)**	25	**Humidity (%)**	56

Test Details

Expanded Uncertainty, Coverage Factor K=2
Measured DC Resistance Within 25% Of Test Limit: 1.6%

TestCondition 4

Test Description Test Condition 4: 50Vdc Reverse Polarity
DC Feed Voltage 50 Vdc
DC Current limit 1 mAdc
Feed Voltage Polarity Reverse Polarity
Feed Resistance 20k Ohms
Time Waited Before Making Measurement 30 Seconds
Measurement Taken For 1 Seconds
Test Result Must Be Greater Than 4M Ohms
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured DC Resistance Within 25% Of Test Limit: 1.6%

TestCondition 5

Test Description Test Condition 5: 100Vdc Normal Polarity
DC Feed Voltage 100 Vdc
DC Current limit 1 mAdc
Feed Voltage Polarity Normal Polarity
Feed Resistance 20k Ohms
Time Waited Before Making Measurement 30 Seconds
Measurement Taken For 1 Seconds
Test Result Must Be Greater Than 4M Ohms
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured DC Resistance Within 25% Of Test Limit: 1.6%

TestCondition 6

Test Description Test Condition 6: 100Vdc Reverse Polarity
DC Feed Voltage 100 Vdc
DC Current limit 1 mAdc
Feed Voltage Polarity Reverse Polarity
Feed Resistance 20k Ohms
Time Waited Before Making Measurement 30 Seconds
Measurement Taken For 1 Seconds
Test Result Must Be Greater Than 4M Ohms

COPY

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)					
Clause 4.4.1, DC Resistance					
ID	4210	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the EUT presents a resistance of at least 4 MOhm when tested at 25Vdc, 50Vdc and 100Vdc in the quiescent state				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 09:41:58	**Temp (℃)**	25	**Humidity (%)**	56

Test Details

Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured DC Resistance Within 25% Of Test Limit: 1.6%

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.4.2.1, Impedance In The Quiescent State					
ID	4211	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine whether the EUT presents an impedance in the quiescent state during ringing within the specified range				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 09:49:19	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Test Condition 1, Test Condition 1: 25Hz 30Vrms Ringing

Ring Signal Voltage: 30 Vrms, Ring Signal Frequency: 25 Hz
DC Feed Voltage: 50 Vdc, Feed Resistance 2.05k Ohms, Feed Polarity: Normal Polarity

Magnitude Impedance Must Be>= 16k Ohms
Measured Magnitude Impedance: 20.68k Ohms
Magnitude Impedance Status: **Pass**

Measured Capacitance A To B: 0.8742uF

Measured Real Part Of Impedance A To B: 19.35k Ohms

Test Condition Status: Pass

Test Condition 2, Test Condition 2: 50Hz 30Vrms Ringing

Ring Signal Voltage: 30 Vrms, Ring Signal Frequency: 50 Hz
DC Feed Voltage: 50 Vdc, Feed Resistance 2.05k Ohms, Feed Polarity: Normal Polarity

Magnitude Impedance Must Be>= 16k Ohms
Measured Magnitude Impedance: 18.34k Ohms
Magnitude Impedance Status: **Pass**

Measured Capacitance A To B: 0.8307uF

Measured Real Part Of Impedance A To B: 17.93k Ohms

Test Condition Status: Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.4.2.1, Impedance In The Quiescent State					
ID	4211	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine whether the EUT presents an impedance in the quiescent state during ringing within the specified range				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 09:49:19	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 1

Test Description Test Condition 1: 25Hz 30Vrms Ringing
DC Feed Voltage 50 Vdc
Feed Voltage Polarity Normal Polarity
Feed Resistance 2.05k Ohms
Ring Signal Voltage 30 Vrms
Ring Signal Frequency 25 Hz
Ring Signal Calibrated At: EUT
Maximum Ring Voltage Applied For Calibration: 90 Vrms
Time Waited Before Making Measurement 5 Seconds
Overall Impedance Must Be >= 16k Ohms
Test Lower Limit = 1
Test Upper Limit = 0
Test Lower Limit For Capacitance = 0
Test Upper Limit For Capacitance = 0
Test Lower Limit For Real Component = 0
Test Upper Limit For Real Component = 0
Type Of REN Test TIA-EIA-IS-968 Type A REN
REN Lower Limit 0
Test Lower Limit 0 (0=Not Test, 1=Test)
REN Upper Limit 0
Test Upper Limit 0 (0=Not Test, 1=Test)
Report Worst Case REN For All Test Conditions 0 (1=Yes, 0=No)
Worst Case REN Based On High Value
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Overall Impedance: 1.30%
Capacitance A To B: 5.15%
Resistive Component A to B: 3.41%

TestCondition 2

Test Description Test Condition 2: 50Hz 30Vrms Ringing
DC Feed Voltage 50 Vdc
Feed Voltage Polarity Normal Polarity
Feed Resistance 2.05k Ohms
Ring Signal Voltage 30 Vrms
Ring Signal Frequency 50 Hz

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.4.2.1, Impedance In The Quiescent State

ID	4211	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine whether the EUT presents an impedance in the quiescent state during ringing within the specified range				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 09:49:19	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

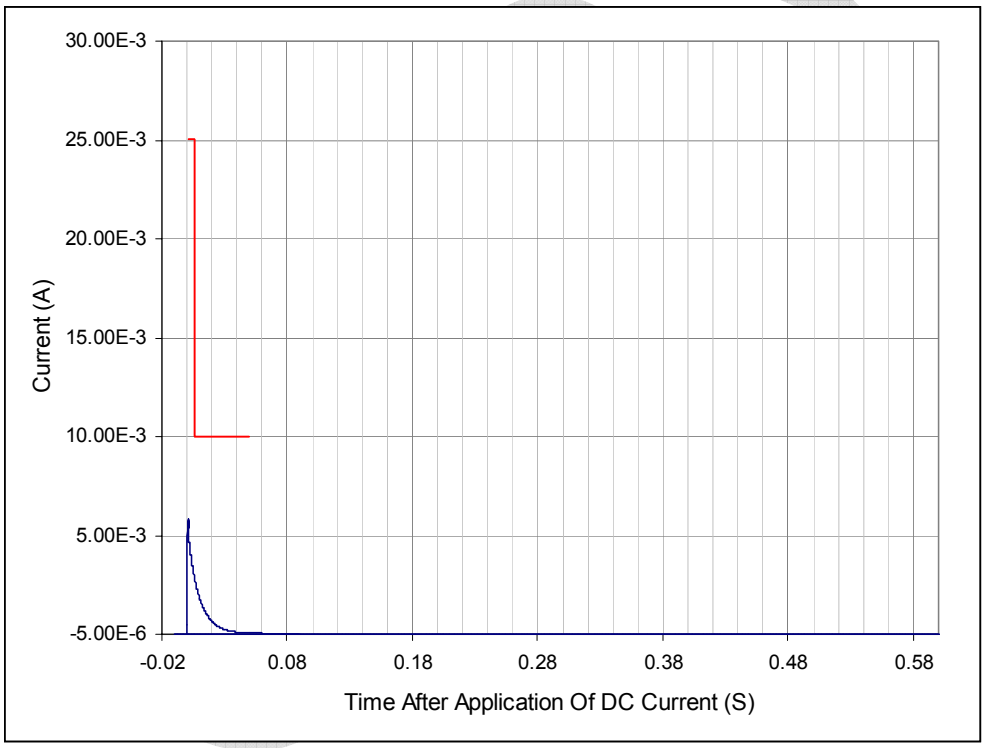
Ring Signal Calibrated At: EUT
Maximum Ring Voltage Applied For Calibration: 90 Vrms
Time Waited Before Making Measurement 5 Seconds
Overall Impedance Must Be >= 16k Ohms
Test Lower Limit = 1
Test Upper Limit = 0
Test Lower Limit For Capacitance = 0
Test Upper Limit For Capacitance = 0
Test Lower Limit For Real Component = 0
Test Upper Limit For Real Component = 0
Type Of REN Test TIA-EIA-IS-968 Type A REN
REN Lower Limit 0
Test Lower Limit 0 (0=Not Test, 1=Test)
REN Upper Limit 0
Test Upper Limit 0 (0=Not Test, 1=Test)
Report Worst Case REN For All Test Conditions 0 (1=Yes, 0=No)
Worst Case REN Based On High Value
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Overall Impedance: 1.31%
Capacitance A To B: 7.26%
Resistive Component A to B: 3.05%

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.4.2.2, Transient Response In The Quiescent State					
ID	4212	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check the transient DC characteristics of the EUT in the quiescent state				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 10:06:08	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass



Test Condition 1, Test Condition 1: 60Vdc Normal Polarity

DC Feed Voltage: 60 Vdc, Feed Resistance: 200 Ohms, Feed Polarity: 0

Status Against Upper Limits: **Pass**, **Test Condition Status: Pass**

Test Condition 2, Test Condition 2: 60Vdc Reverse Polarity

DC Feed Voltage: 60 Vdc, Feed Resistance: 200 Ohms, Feed Polarity: 1

Status Against Upper Limits: **Pass**, **Test Condition Status: Pass**

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.4.2.2, Transient Response In The Quiescent State					
ID	4212	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check the transient DC characteristics of the EUT in the quiescent state				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 10:06:08	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 1

Test Description: Test Condition 1: 60Vdc Normal Polarity
DC Feed Voltage: 60 Vdc
Feed Voltage Polarity: 0
Feed Resistance: 200 Ohms
Time Waited Before Making Measurement: 60 Seconds
Whilst In The Idle State EUT Is Short Circuited
Use Lower Limits: 0
Use Upper Limits: 1
For Lower Test Limits, Please see test results
For Upper Test Limits, Please see test results
Data To Capture Before Connecting EUT: 10m S
Data To Capture After Connecting EUT: 90m S
Trigger Threshold: 100u A
Trigger Slope: Positive
Trigger Validation Time: 0 Secs
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured DC current within 20% of maximum Upper Limit: 1.66%
Measured DC Current within 20% of minimum Upper Limit: 1.68%
Measured DC current within 20% of maximum Lower Limit: N/A%
Measured DC Current within 20% of minimum Lower Limit: N/A%
Transient Timing: 10.5uSecs

TestCondition 2

Test Description: Test Condition 2: 60Vdc Reverse Polarity
DC Feed Voltage: 60 Vdc
Feed Voltage Polarity: 1
Feed Resistance: 200 Ohms
Time Waited Before Making Measurement: 60 Seconds
Whilst In The Idle State EUT Is Short Circuited
Use Lower Limits: 0
Use Upper Limits: 1
For Lower Test Limits, Please see test results
For Upper Test Limits, Please see test results
Data To Capture Before Connecting EUT: 10m S
Data To Capture After Connecting EUT: 90m S
Trigger Threshold: 100u A

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.4.2.2, Transient Response In The Quiescent State

ID	4212	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check the transient DC characteristics of the EUT in the quiescent state				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 10:06:08	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Trigger Slope: Positive
Trigger Validation Time: 0 Secs
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured DC current within 20% of maximum Upper Limit: 1.66%
Measured DC Current within 20% of minimum Upper Limit: 1.68%
Measured DC current within 20% of maximum Lower Limit: N/A%
Measured DC Current within 20% of minimum Lower Limit: N/A%
Transient Timing: 10.5uSecs

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.4.2.3, DC Current During Ringing					
ID	4213	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine if the DC component of ringing exceeds 0.6mA				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 10:19:15	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Test Condition 1, Test Condition 1: 25Hz 90Vrms Ringing, 60Vdc Normal Polarity
DC Feed Voltage: 60 Vdc, DC Feed Resistance: 850 Ohms, DC Feed Polarity: Normal Polarity
Ring Signal Voltage: 90 Vrms, Ring Signal Frequency: 25 Hz

DC Current Must Be <= 0.6m A
Measured DC Current: <0.1m A
DC Current Status Against Upper Limit: **Pass**

Measured Resistance: >1M Ohms

Test Condition Status: Pass

Test Condition 2, Test Condition 2: 25Hz 90Vrms Ringing, 60Vdc Reverse Polarity
DC Feed Voltage: 60 Vdc, DC Feed Resistance: 850 Ohms, DC Feed Polarity: Reverse Polarity
Ring Signal Voltage: 90 Vrms, Ring Signal Frequency: 25 Hz

DC Current Must Be <= 0.6m A
Measured DC Current: <0.1m A
DC Current Status Against Upper Limit: **Pass**

Measured Resistance: >1M Ohms

Test Condition Status: Pass

Test Condition 3, Test Condition 3: 50Hz 90Vrms Ringing, 60Vdc, Normal Polarity
DC Feed Voltage: 60 Vdc, DC Feed Resistance: 850 Ohms, DC Feed Polarity: Normal Polarity
Ring Signal Voltage: 90 Vrms, Ring Signal Frequency: 50 Hz

DC Current Must Be <= 0.6m A
Measured DC Current: <0.1m A
DC Current Status Against Upper Limit: **Pass**

Measured Resistance: >1M Ohms

Test Condition Status: Pass

Test Condition 4, Test Condition 4: 50Hz 90Vrms Ringing, 60Vdc Reverse Polarity
DC Feed Voltage: 60 Vdc, DC Feed Resistance: 850 Ohms, DC Feed Polarity: Reverse Polarity

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.4.2.3, DC Current During Ringing

ID	4213	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine if the DC component of ringing exceeds 0.6mA				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 10:19:15	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Ring Signal Voltage: 90 Vrms, Ring Signal Frequency: 50 Hz

DC Current Must Be <= 0.6m A

Measured DC Current: <0.1m A

DC Current Status Against Upper Limit: **Pass**

Measured Resistance: >1M Ohms

Test Condition Status: Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.4.2.3, DC Current During Ringing					
ID	4213	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine if the DC component of ringing exceeds 0.6mA				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 10:19:15	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 1

Test Description Test Condition 1: 25Hz 90Vrms Ringing, 60Vdc Normal Polarity
Ring Signal Voltage 90 Vrms
Ring Signal Frequency 25 Hz
DC Feed Voltage 60 Vdc
Feed Resistance 850 Ohms
DC Feed Voltage Polarity Normal Polarity
After Auto-ranging measurement system wait 5 Secs
Ringing Signal Applied For 0.4 Secs Before Making Measurements
Measurements taken over 10 complete cycles of ringing signal
Trigger Threshold 100u A
Trigger Slope Positive
Trigger Validation Time 0 Secs
Test Lower Limit For DC Current: 0
DC Current Must Be <= 0.6m A
Test Upper Limit For DC Current: 1
Test Lower Limit For DC Resistance: 0 Ohms
Test Upper Limit For DC Resistance: 0
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
DC Current & Resistance: Measurement Out Of Range

TestCondition 2

Test Description Test Condition 2: 25Hz 90Vrms Ringing, 60Vdc Reverse Polarity
Ring Signal Voltage 90 Vrms
Ring Signal Frequency 25 Hz
DC Feed Voltage 60 Vdc
Feed Resistance 850 Ohms
DC Feed Voltage Polarity Reverse Polarity
After Auto-ranging measurement system wait 5 Secs
Ringing Signal Applied For 0.4 Secs Before Making Measurements
Measurements taken over 10 complete cycles of ringing signal
Trigger Threshold 100u A
Trigger Slope Positive
Trigger Validation Time 0 Secs
Test Lower Limit For DC Current: 0
DC Current Must Be <= 0.6m A
Test Upper Limit For DC Current: 1

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.4.2.3, DC Current During Ringing

ID	4213	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine if the DC component of ringing exceeds 0.6mA				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 10:19:15	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Test Lower Limit For DC Resistance: 0 Ohms
Test Upper Limit For DC Resistance: 0
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
DC Current & Resistance: Measurement Out Of Range

TestCondition 3

Test Description Test Condition 3: 50Hz 90Vrms Ringing, 60Vdc, Normal Polarity
Ring Signal Voltage 90 Vrms
Ring Signal Frequency 50 Hz
DC Feed Voltage 60 Vdc
Feed Resistance 850 Ohms
DC Feed Voltage Polarity Normal Polarity
After Auto-ranging measurement system wait 5 Secs
Ringing Signal Applied For 0.4 Secs Before Making Measurements
Measurements taken over 10 complete cycles of ringing signal
Trigger Threshold 100u A
Trigger Slope Positive
Trigger Validation Time 0 Secs
Test Lower Limit For DC Current: 0
DC Current Must Be <= 0.6m A
Test Upper Limit For DC Current: 1
Test Lower Limit For DC Resistance: 0 Ohms
Test Upper Limit For DC Resistance: 0
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
DC Current & Resistance: Measurement Out Of Range

TestCondition 4

Test Description Test Condition 4: 50Hz 90Vrms Ringing, 60Vdc Reverse Polarity
Ring Signal Voltage 90 Vrms
Ring Signal Frequency 50 Hz
DC Feed Voltage 60 Vdc
Feed Resistance 850 Ohms
DC Feed Voltage Polarity Reverse Polarity
After Auto-ranging measurement system wait 5 Secs
Ringing Signal Applied For 0.4 Secs Before Making Measurements
Measurements taken over 10 complete cycles of ringing signal
Trigger Threshold 100u A
Trigger Slope Positive

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.4.2.3, DC Current During Ringing

ID	4213	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine if the DC component of ringing exceeds 0.6mA				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 10:19:15	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Trigger Validation Time 0 Secs
Test Lower Limit For DC Current: 0
DC Current Must Be <= 0.6m A
Test Upper Limit For DC Current: 1
Test Lower Limit For DC Resistance: 0 Ohms
Test Upper Limit For DC Resistance: 0
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
DC Current & Resistance: Measurement Out Of Range

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.4.4, Impedance					
ID	4214	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the TE presents an impedance at 1Vrms in the quiescent state				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Quiescent state				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 10:40:24	**Temp (℃)**	25	**Humidity (%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Feed Vdc	Frequency(kHz)	Polarity	Applied	Result (kohms)	Limit (kohms)	Status
9	0.2 to 4.3	Normal Polarity	A-Leg	>40	40	Pass
9	0.2 to 4.3	Reverse Polarity	B-Leg	>40	40	Pass
9	12	Normal Polarity	A-Leg	>5	5	Pass
9	12	Reverse Polarity	B-Leg	>5	5	Pass
9	16	Normal Polarity	A-Leg	>5	5	Pass
9	16	Reverse Polarity	B-Leg	>5	5	Pass

Overall Result: **Pass**

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.5, Ringing Signal Detector Sensitivity					
ID	4215	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine the EUT's ability to respond as stated to ringing signals as specified by the supplier				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:26:58	**Temp** (℃)	25	**Humidity (%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Test Condition 1, Test Condition 1: 25Hz 30Vrms Ringing
DC Feed Voltage: 50 Vdc, Feed Resistance 850 Ohms, Feed circuit polarity: Normal Polarity
ES 203021-3 Ring Signal 1: 25Hz, 30Vrms, 1 Sec On, 5 Sec Off
Type Of Test: Detection Of Ringing Signals
Type Of EUT: EUT With Manual Ring Detection Facility
EUT Responded To Ringing 2.001 Secs After Start Of Ringing
Test Condition Status: Pass

Test Condition 2, Test Condition 2: 50Hz 30Vrms Ringing
DC Feed Voltage: 50 Vdc, Feed Resistance 850 Ohms, Feed circuit polarity: Normal Polarity
ES 203021-3 Ring Signal 2: 50Hz, 30Vrms, 1 Sec On, 5 Sec Off
Type Of Test: Detection Of Ringing Signals
Type Of EUT: EUT With Manual Ring Detection Facility
EUT Responded To Ringing 1.052 Secs After Start Of Ringing
Test Condition Status: Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.5, Ringing Signal Detector Sensitivity					
ID	4215	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine the EUT's ability to respond as stated to ringing signals as specified by the supplier				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:26:58	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

TestCondition 1

Test Description Test Condition 1: 25Hz 30Vrms Ringing
DC Feed Voltage: 50 Vdc
Feed Resistance: 850 Ohms
Feed Circuit Polarity: Normal Polarity
Ring Signal: ES 203021-3 Ring Signal 1: 25Hz, 30Vrms, 1 Sec On, 5 Sec Off
Calibrate Ring Signal At: EUT
EUT Has Seized Line When DC Current Exceeds: 5m A
Ring Signal ES 203021-3 Ring Signal 1: 25Hz, 30Vrms, 1 Sec On, 5 Sec Off
Ring Signal Voltage: 30 Vrms
Ring Signal Frequency: 25 Hz
Ring Cadence Initial On 1: 0 Secs
Ring Cadence Initial Off 1: 0 Secs
Ring Cadence Initial On 2: 0 Secs
Ring Cadence Initial Off 2: 0 Secs
Ring Cadence Cyclic On 1: 1 Secs
Ring Cadence Cyclic Off 1: 5 Secs
Ring Cadence Cyclic On 2: 0 Secs
Ring Cadence Cyclic Off 2: 0 Secs
Ring Cadence Cyclic On 3: 0 Secs
Ring Cadence Cyclic Off 3: 0 Secs
Test Type: Detection Of Ringing Signals
Test EUT Must Not Answer Limit: 0 (1 = Test, 0 = Do Not Test)
Test EUT Must Answer Limit: 0 (1 = Test, 0 = No Test)
Ringing Overload Test Application Time: 2 Secs
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
DC Current Crossing Off-Hook Threshold: 1.70%
Timing On Detection Of EUT Going Off Hook: 0.12 Secs
Generated Ring Signal Voltage: 0.58Vrms
Generated Ring Signal Cadence Timing: 1.15%

TestCondition 2

Test Description Test Condition 2: 50Hz 30Vrms Ringing
DC Feed Voltage: 50 Vdc
Feed Resistance: 850 Ohms
Feed Circuit Polarity: Normal Polarity

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.5, Ringing Signal Detector Sensitivity

ID	4215	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine the EUT's ability to respond as stated to ringing signals as specified by the supplier				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State					
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:26:58	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

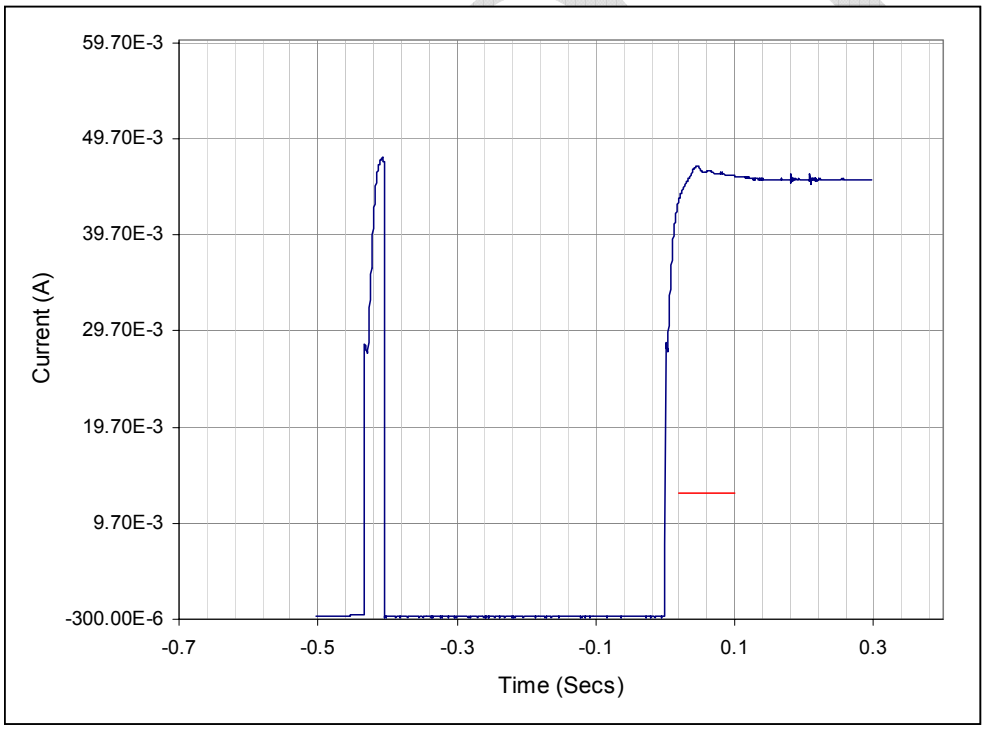
Ring Signal: ES 203021-3 Ring Signal 2: 50Hz, 30Vrms, 1 Sec On, 5 Sec Off
Calibrate Ring Signal At: EUT
EUT Has Seized Line When DC Current Exceeds: 5m A
Ring Signal ES 203021-3 Ring Signal 2: 50Hz, 30Vrms, 1 Sec On, 5 Sec Off
Ring Signal Voltage: 30 Vrms
Ring Signal Frequency: 50 Hz
Ring Cadence Initial On 1: 0 Secs
Ring Cadence Initial Off 1: 0 Secs
Ring Cadence Initial On 2: 0 Secs
Ring Cadence Initial Off 2: 0 Secs
Ring Cadence Cyclic On 1: 1 Secs
Ring Cadence Cyclic Off 1: 5 Secs
Ring Cadence Cyclic On 2: 0 Secs
Ring Cadence Cyclic Off 2: 0 Secs
Ring Cadence Cyclic On 3: 0 Secs
Ring Cadence Cyclic Off 3: 0 Secs
Test Type: Detection Of Ringing Signals
Test EUT Must Not Answer Limit: 0 (1 = Test, 0 = Do Not Test)
Test EUT Must Answer Limit: 0 (1 = Test, 0 = No Test)
Ringing Overload Test Application Time: 2 Secs
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
DC Current Crossing Off-Hook Threshold: 1.70%
Timing On Detection Of EUT Going Off Hook: 0.12 Secs
Generated Ring Signal Voltage: 0.58Vrms
Generated Ring Signal Cadence Timing: 1.15%

COPY

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)						
Clause 4.6.1, Acceptance Of Breaks In The Loop In A Call Attempt						
ID	4216	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check that the EUT is capable of accepting short breaks in loop current during establishment of the loop state					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Test Condition 1: Test Condition 1: 30mS Delay Before Break					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 10:59:28	**Temp** (℃)	25	**Humidity (%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 1, Test Condition 1: 30mS Delay Before Break

DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 850 Ohms
Line Interruption Applied 30m Secs After EUT Seized Line
Duration Of Line Interruption: 0.4 Secs
EUT Is Off Hook When Loop Current Exceeds: 12.8m A

Measured Loop Current May Fall Outside Test Limits For A Total Aggregated Period Of 0.007 Secs
Loop Current Fell Below Lower Test Limits For A Total Aggregated Period Of: 0 Secs
Status Against Lower Test Limits: **Pass**

Test Condition Status Pass

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)					
Clause 4.6.1, Acceptance Of Breaks In The Loop In A Call Attempt					
ID	4216	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check that the EUT is capable of accepting short breaks in loop current during establishment of the loop state				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Test Condition 1: 30mS Delay Before Break				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 10:59:28	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

TestCondition 1

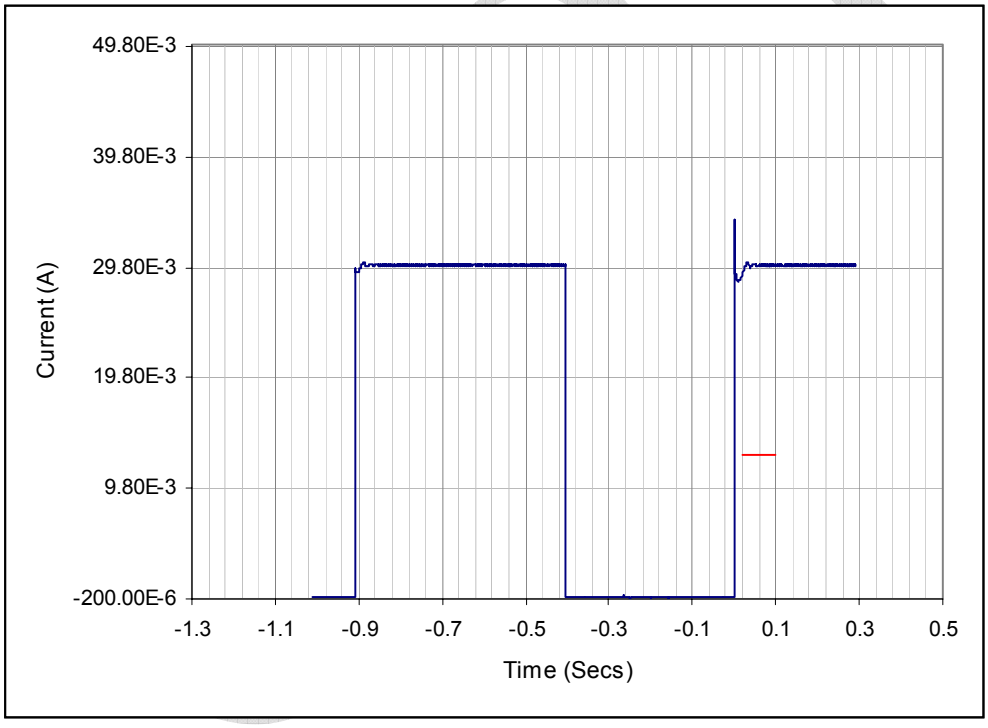
Test Description: Test Condition 1: 30mS Delay Before Break
DC Feed Voltage: 50 Vdc
Feed Resistance: 850 Ohms
Initial Feed Circuit Polarity Normal Polarity
EUT Is Off Hook When Loop Current Exceeds: 12.8m A
Delay Before Applying Line Interruption: 30m Secs
Duration Of Line Interruption: 0.4 Secs
After Applying Line Interruption Continue Measurements For A Further: 0.2 Secs
Loop Current Threshold For Restoration Of Loop: 0.2m A
Loop Current Is Allowed To Fall Outside Test Limits For A Maximum Period Of: 0.007 Secs
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Current Within 20% Of Lower Test Limits Lowest Limit Point: 1.243%
Measured Current Within 20% Of Lower Test Limits Highest Limit Point: 1.243%
Measured Current Within 20% Of Upper Test Limits Lowest Limit Point: N/A
Measured Current Within 20% Of Upper Test Limits Highest Limit Point: N/A
Measured Timing: 20.99uSecs

COPY

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)						
Clause 4.6.1, Acceptance Of Breaks In The Loop In A Call Attempt						
ID	4216	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check that the EUT is capable of accepting short breaks in loop current during establishment of the loop state					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Test Condition 2: Test Condition 2: 500ms Delay Before Break					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 10:59:28	**Temp** (℃)	25	**Humidity (%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 2, Test Condition 2: 500ms Delay Before Break

DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 850 Ohms
Line Interruption Applied 0.5 Secs After EUT Seized Line
Duration Of Line Interruption: 0.4 Secs
EUT Is Off Hook When Loop Current Exceeds: 12.8m A

Measured Loop Current May Fall Outside Test Limits For A Total Aggregated Period Of 0.007 Secs
Loop Current Fell Below Lower Test Limits For A Total Aggregated Period Of: 0 Secs
Status Against Lower Test Limits: **Pass**

Test Condition Status Pass

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)					
Clause 4.6.1, Acceptance Of Breaks In The Loop In A Call Attempt					
ID	4216	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check that the EUT is capable of accepting short breaks in loop current during establishment of the loop state				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 2: Test Condition 2: 500ms Delay Before Break				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 10:59:28	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

TestCondition 2

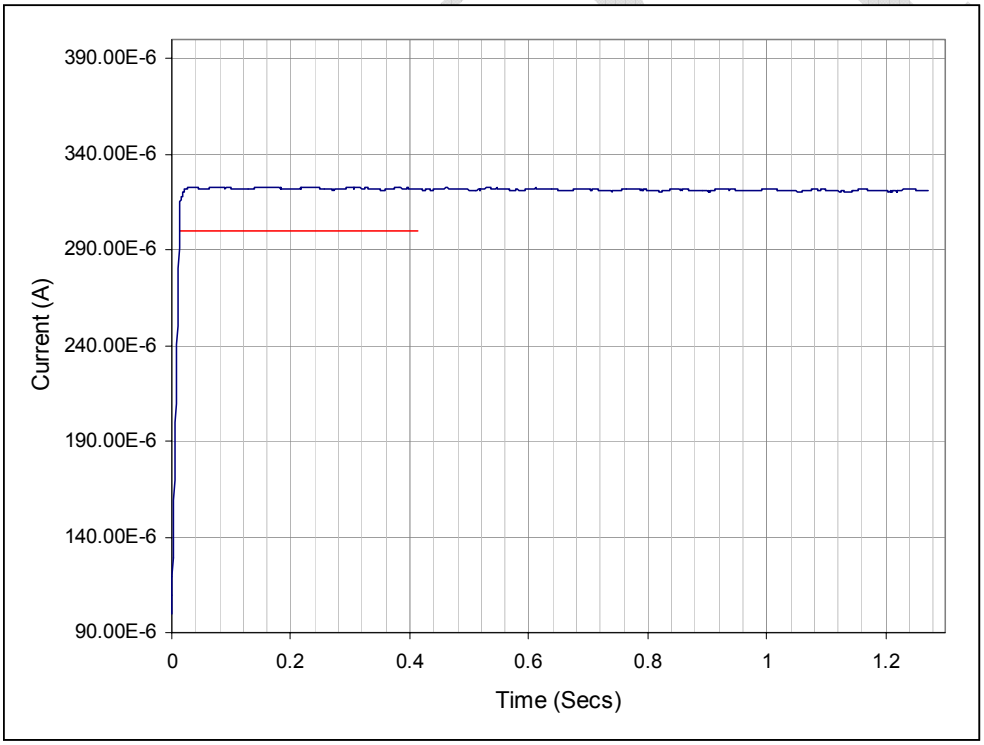
Test Description: Test Condition 2: 500ms Delay Before Break
DC Feed Voltage: 50 Vdc
Feed Resistance: 850 Ohms
Initial Feed Circuit Polarity Normal Polarity
EUT Is Off Hook When Loop Current Exceeds: 12.8m A
Delay Before Applying Line Interruption: 0.5 Secs
Duration Of Line Interruption: 0.4 Secs
After Applying Line Interruption Continue Measurements For A Further: 0.2 Secs
Loop Current Threshold For Restoration Of Loop: 0.2m A
Loop Current Is Allowed To Fall Outside Test Limits For A Maximum Period Of: 0.007 Secs
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Current Within 20% Of Lower Test Limits Lowest Limit Point: 1.243%
Measured Current Within 20% Of Lower Test Limits Highest Limit Point: 1.243%
Measured Current Within 20% Of Upper Test Limits Lowest Limit Point: N/A
Measured Current Within 20% Of Upper Test Limits Highest Limit Point: N/A
Measured Timing: 20.99uSecs

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.6.2, Loop Current Characteristics						
ID	4217	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 o f ES 203021-3					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Test Condition 1: Test Condition 1: 50Vdc, 150kohm					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 1, Test Condition 1: 50Vdc, 150kohm

Measurement Type: On Hook To Off Hook
DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 150k Ohms
Loop Current Must Be Within Test Limit Mask Within 0.4 Secs Of Reference Moment Of Line Seizure (t1-t0)
t1 - t0 (Time To Reach First Test Limit Point): 12.73m Secs
t1 - t0 (Time To Reach First Test Limit Point) Status: **Pass**
Loop Current Fell Below Lower Test Limit Mask For A Total Aggregated Period Of 0 Secs
Status Against Lower Test Limits: **Pass**

Test Condition Status Pass

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.6.2, Loop Current Characteristics					
ID	4217	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Test Condition 1: 50Vdc, 150kohm				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 1

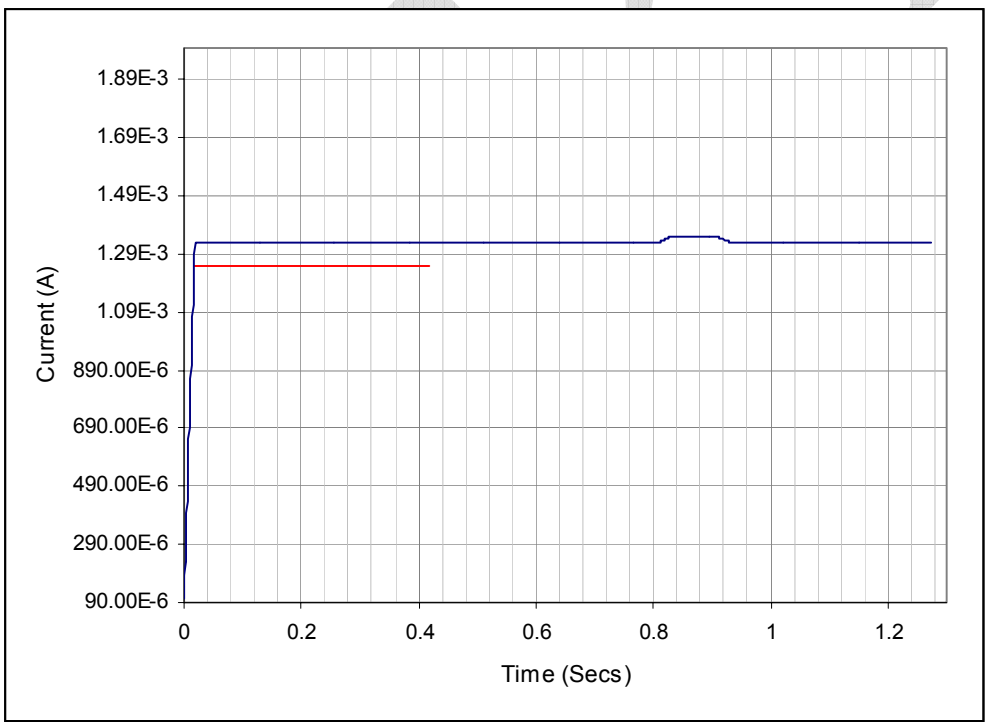
Test Description: Test Condition 1: 50Vdc, 150kohm
DC Feed Voltage: 50 Vdc
Feed Resistance: 150k Ohms
Feed Polarity Normal Polarity
Type Of Test: On Hook To Off Hook
After Configuring Test Wait 60 Secs Before Starting Test
EUT Must Release Line Within 30 Secs Of A Power Failure
Reference Point For Line Seizure/Line Release 100u A
Reference Point For Line Seizure/Line Release Qualification Time: 5m Secs
EUT current must be within limit mask within 0.4 Secs Of Passing Reference Point For Line Seizure/Line Release
Apply Test Limit For EUT Current To Be Within Limit Mask: 1 (0 = Do Not Apply, 1 = Apply)
Qualification Time For EUT Current Being Within Limit Mask: 5m Secs
Maximum (aggregated) Time That EUT Current Is Allowed Outside Mask Limits: 7m Secs
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Current Within 20% Of Lower Test Limits Lowest Limit Point: 1.191%
Measured Current Within 20% Of Lower Test Limits Highest Limit Point: 1.191%
Measured Current Within 20% Of Upper Test Limits Lowest Limit Point: N/A
Measured Current Within 20% Of Upper Test Limits Highest Limit Point: N/A
Measured Timing: 0.105mSecs

COPY

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)						
Clause 4.6.2, Loop Current Characteristics						
ID	4217	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Test Condition 2: Test Condition 2: 50Vdc, 36kohms					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 2, Test Condition 2: 50Vdc, 36kohms

Measurement Type: On Hook To Off Hook
DC Feed Voltage: 50 Vdc, Reverse Polarity, DC Feed Resistance: 36k Ohms
Loop Current Must Be Within Test Limit Mask Within 0.4 Secs Of Reference Moment Of Line Seizure (t1-t0)
t1 - t0 (Time To Reach First Test Limit Point): 17.27m Secs
t1 - t0 (Time To Reach First Test Limit Point) Status: **Pass**
Loop Current Fell Below Lower Test Limit Mask For A Total Aggregated Period Of 0 Secs
Status Against Lower Test Limits: **Pass**

Test Condition Status Pass

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)					
Clause 4.6.2, Loop Current Characteristics					
ID	4217	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 2: Test Condition 2: 50Vdc, 36kohms				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 2

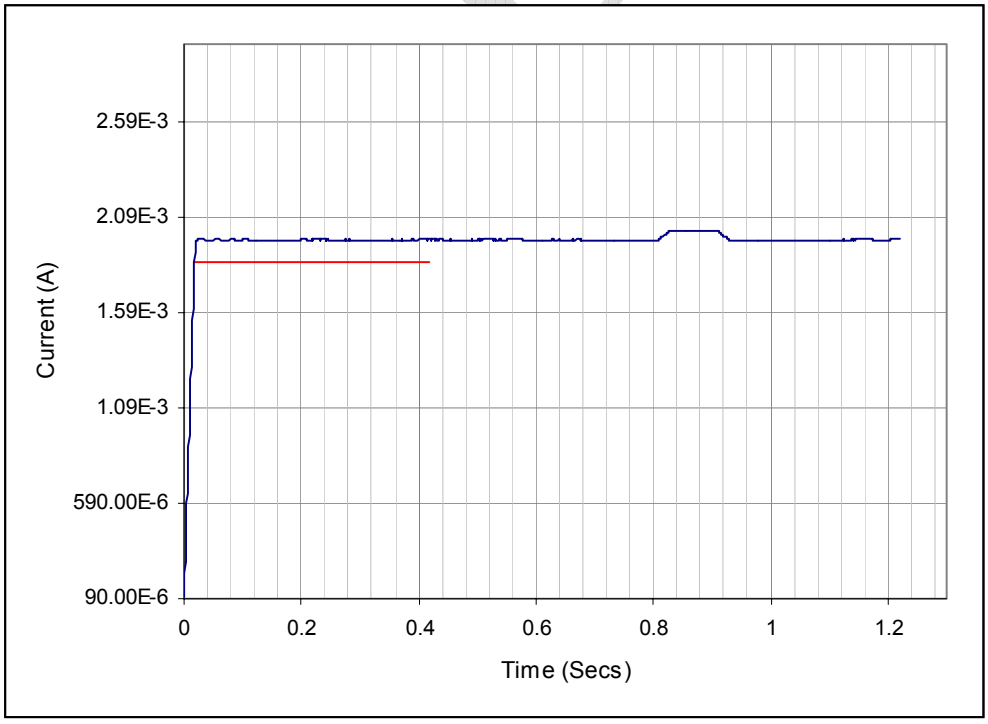
Test Description: Test Condition 2: 50Vdc, 36kohms
DC Feed Voltage: 50 Vdc
Feed Resistance: 36k Ohms
Feed Polarity Reverse Polarity
Type Of Test: On Hook To Off Hook
After Configuring Test Wait 60 Secs Before Starting Test
EUT Must Release Line Within 30 Secs Of A Power Failure
Reference Point For Line Seizure/Line Release 100u A
Reference Point For Line Seizure/Line Release Qualification Time: 5m Secs
EUT current must be within limit mask within 0.4 Secs Of Passing Reference Point For Line Seizure/Line Release
Apply Test Limit For EUT Current To Be Within Limit Mask: 1 (0 = Do Not Apply, 1 = Apply)
Qualification Time For EUT Current Being Within Limit Mask: 5m Secs
Maximum (aggregated) Time That EUT Current Is Allowed Outside Mask Limits: 7m Secs
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Current Within 20% Of Lower Test Limits Lowest Limit Point: 1.17%
Measured Current Within 20% Of Lower Test Limits Highest Limit Point: 1.17%
Measured Current Within 20% Of Upper Test Limits Lowest Limit Point: N/A
Measured Current Within 20% Of Upper Test Limits Highest Limit Point: N/A
Measured Timing: 0.105mSecs

COPY

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)						
Clause 4.6.2, Loop Current Characteristics						
ID	4217	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Test Condition 3: Test Condition 3: 50Vdc, 24kohms					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 3, Test Condition 3: 50Vdc, 24kohms

Measurement Type: On Hook To Off Hook
DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 24k Ohms
Loop Current Must Be Within Test Limit Mask Within 0.4 Secs Of Reference Moment Of Line Seizure (t1-t0)
t1 - t0 (Time To Reach First Test Limit Point): 17.82m Secs
t1 - t0 (Time To Reach First Test Limit Point) Status: **Pass**
Loop Current Fell Below Lower Test Limit Mask For A Total Aggregated Period Of 0 Secs
Status Against Lower Test Limits: **Pass**

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)						
Clause 4.6.2, Loop Current Characteristics						
ID	4217	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Test Condition 3: Test Condition 3: 50Vdc, 24kohms					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass

Test Condition Status Pass

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)						
Clause 4.6.2, Loop Current Characteristics						
ID	4217	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Test Condition 3: Test Condition 3: 50Vdc, 24kohms					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56	

Test Details

TestCondition 3

Test Description: Test Condition 3: 50Vdc, 24kohms
DC Feed Voltage: 50 Vdc
Feed Resistance: 24k Ohms
Feed Polarity Normal Polarity
Type Of Test: On Hook To Off Hook
After Configuring Test Wait 60 Secs Before Starting Test
EUT Must Release Line Within 30 Secs Of A Power Failure
Reference Point For Line Seizure/Line Release 100u A
Reference Point For Line Seizure/Line Release Qualification Time: 5m Secs
EUT current must be within limit mask within 0.4 Secs Of Passing Reference Point For Line Seizure/Line Release
Apply Test Limit For EUT Current To Be Within Limit Mask: 1 (0 = Do Not Apply, 1 = Apply)

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)

Clause 4.6.2, Loop Current Characteristics

ID	4217	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 3: Test Condition 3: 50Vdc, 24kohms				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

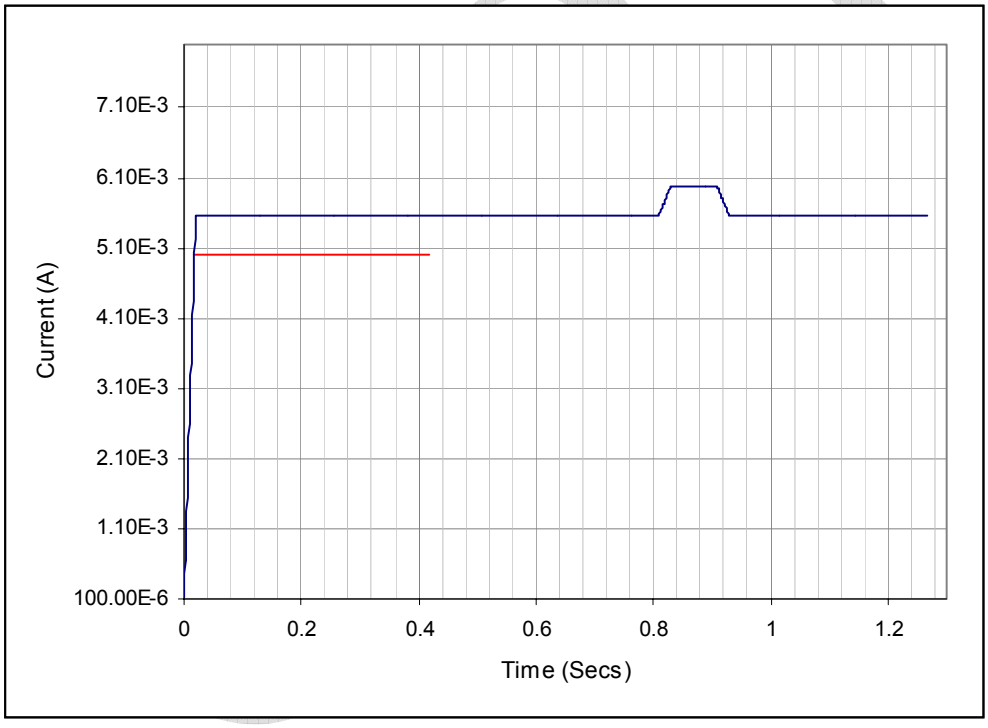
Qualification Time For EUT Current Being Within Limit Mask: 5m Secs
Maximum (aggregated) Time That EUT Current Is Allowed Outside Mask Limits: 7m Secs
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Current Within 20% Of Lower Test Limits Lowest Limit Point: 1.165%
Measured Current Within 20% Of Lower Test Limits Highest Limit Point: 1.165%
Measured Current Within 20% Of Upper Test Limits Lowest Limit Point: N/A
Measured Current Within 20% Of Upper Test Limits Highest Limit Point: N/A
Measured Timing: 0.105mSecs

COPY

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)						
Clause 4.6.2, Loop Current Characteristics						
ID	4217	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Test Condition 4: Test Condition 4: 50Vdc, 8kohms					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 4, Test Condition 4: 50Vdc, 8kohms

Measurement Type: On Hook To Off Hook
DC Feed Voltage: 50 Vdc, Reverse Polarity, DC Feed Resistance: 8k Ohms
Loop Current Must Be Within Test Limit Mask Within 0.4 Secs Of Reference Moment Of Line Seizure (t1-t0)
t1 - t0 (Time To Reach First Test Limit Point): 17.64m Secs
t1 - t0 (Time To Reach First Test Limit Point) Status: **Pass**
Loop Current Fell Below Lower Test Limit Mask For A Total Aggregated Period Of 0 Secs
Status Against Lower Test Limits: **Pass**

Test Condition Status Pass

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)					
Clause 4.6.2, Loop Current Characteristics					
ID	4217	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 4: Test Condition 4: 50Vdc, 8kohms				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 4

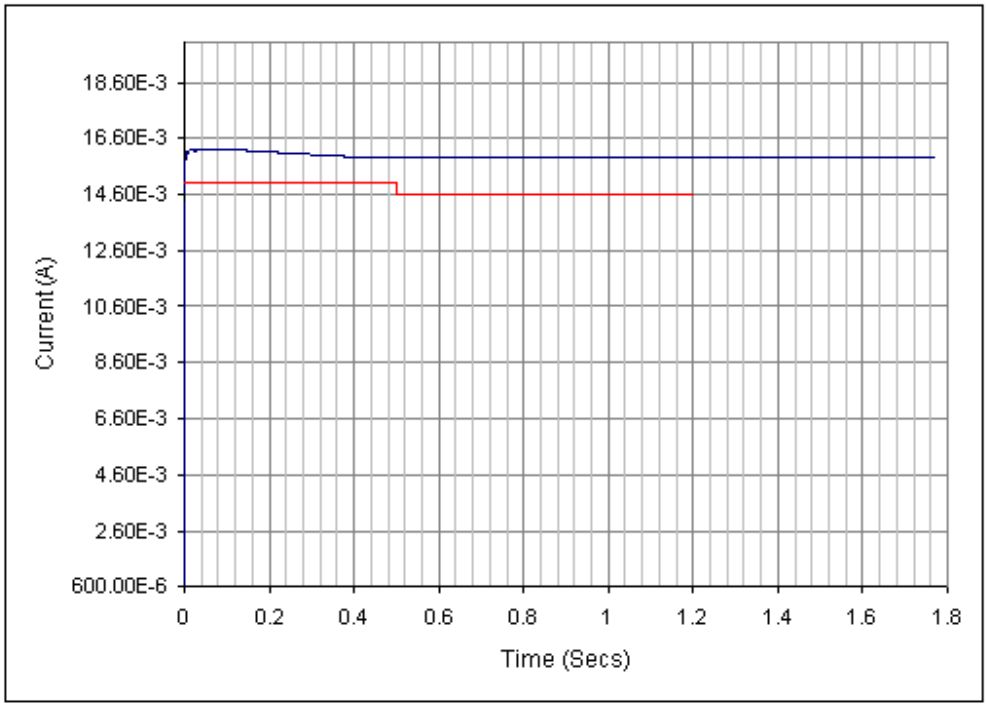
Test Description: Test Condition 4: 50Vdc, 8kohms
DC Feed Voltage: 50 Vdc
Feed Resistance: 8k Ohms
Feed Polarity Reverse Polarity
Type Of Test: On Hook To Off Hook
After Configuring Test Wait 60 Secs Before Starting Test
EUT Must Release Line Within 30 Secs Of A Power Failure
Reference Point For Line Seizure/Line Release 100u A
Reference Point For Line Seizure/Line Release Qualification Time: 5m Secs
EUT current must be within limit mask within 0.4 Secs Of Passing Reference Point For Line Seizure/Line Release
Apply Test Limit For EUT Current To Be Within Limit Mask: 1 (0 = Do Not Apply, 1 = Apply)
Qualification Time For EUT Current Being Within Limit Mask: 5m Secs
Maximum (aggregated) Time That EUT Current Is Allowed Outside Mask Limits: 7m Secs
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Current Within 20% Of Lower Test Limits Lowest Limit Point: 1.213%
Measured Current Within 20% Of Lower Test Limits Highest Limit Point: 1.213%
Measured Current Within 20% Of Upper Test Limits Lowest Limit Point: N/A
Measured Current Within 20% Of Upper Test Limits Highest Limit Point: N/A
Measured Timing: 0.105mSecs

COPY

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)					
Clause 4.6.2, Loop Current Characteristics					
ID	4217	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3				
EUT Details	Sample Number: 0001, Modification State: 00 Sample Number: 0002, Modification State: 00				
Operating State	Test Condition 5: Test Condition 5: 50Vdc, 2800 Ohms				
Test Class	Engineering Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass



Test Condition 5, Test Condition 5: 50Vdc, 2800 Ohms

Measurement Type: On Hook To Off Hook
DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 2.8k Ohms
Loop Current Must Be Within Test Limit Mask Within 30m Secs Of Reference Moment Of Line Seizure (t1-t0)
t1 - t0 (Time To Reach First Test Limit Point): 1.818m Secs
t1 - t0 (Time To Reach First Test Limit Point) Status: **Pass**
Loop Current Fell Below Lower Test Limit Mask For A Total Aggregated Period Of 0 Secs
Status Against Lower Test Limits: **Pass**

Test Condition Status Pass

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)					
Clause 4.6.2, Loop Current Characteristics					
ID	4217	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3				
EUT Details	Sample Number: 0001, Modification State: 00 Sample Number: 0002, Modification State: 00				
Operating State	Test Condition 5: Test Condition 5: 50Vdc, 2800 Ohms				
Test Class	Engineering Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 5

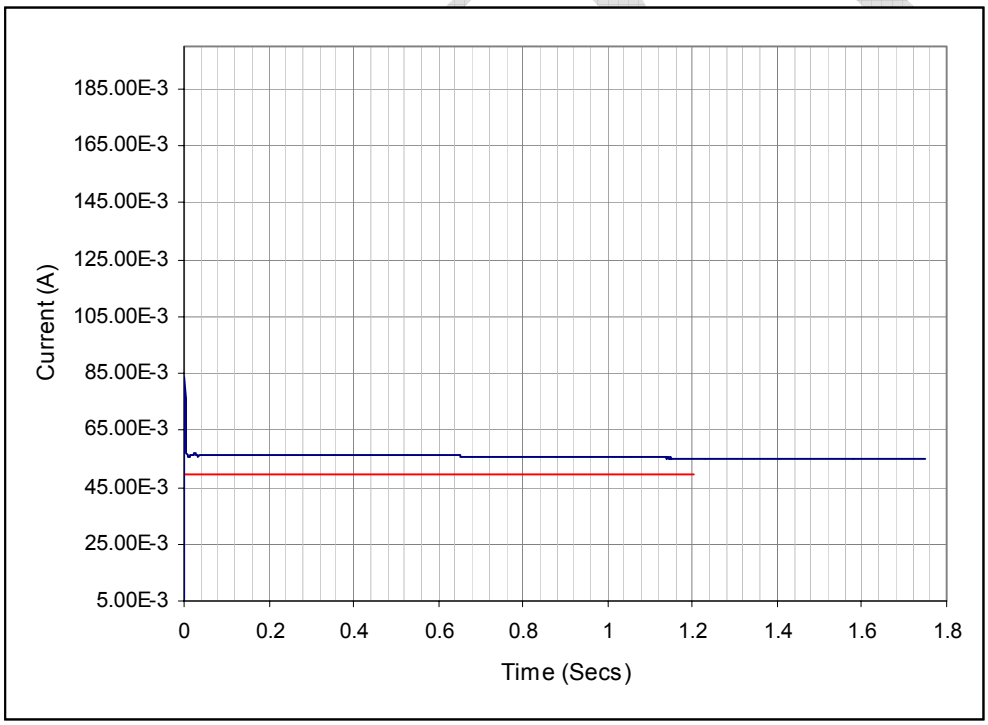
Test Description: Test Condition 5: 50Vdc, 2.8k Ohms
DC Feed Voltage: 50 Vdc
Feed Resistance: 2.8k Ohms
Feed Polarity Normal Polarity
Type Of Test: On Hook To Off Hook
After Configuring Test Wait 60 Secs Before Starting Test
EUT Must Release Line Within 30 Secs Of A Power Failure
Reference Point For Line Seizure/Line Release 100u A
Reference Point For Line Seizure/Line Release Qualification Time: 5m Secs
EUT current must be within limit mask within 30m Secs Of Passing Reference Point For Line Seizure/Line Release
Apply Test Limit For EUT Current To Be Within Limit Mask: 1 (0 = Do Not Apply, 1 = Apply)
Qualification Time For EUT Current Being Within Limit Mask: 5m Secs
Maximum (aggregated) Time That EUT Current Is Allowed Outside Mask Limits: 7m Secs
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Current Within 20% Of Lower Test Limits Lowest Limit Point: 1.169%
Measured Current Within 20% Of Lower Test Limits Highest Limit Point: 1.168%
Measured Current Within 20% Of Upper Test Limits Lowest Limit Point: N/A
Measured Current Within 20% Of Upper Test Limits Highest Limit Point: N/A
Measured Timing: 0.105mSecs

COPY

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)						
Clause 4.6.2, Loop Current Characteristics						
ID	4217	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3					
EUT Details	Sample Number: 0001, Modification State: 00 Sample Number: 0002, Modification State: 00					
Operating State	Test Condition 6: Test Condition 6: 50Vdc, 400ohms					
Test Class	Engineering Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 6, Test Condition 6: 50Vdc, 400ohms

Measurement Type: On Hook To Off Hook
DC Feed Voltage: 50 Vdc, Reverse Polarity, DC Feed Resistance: 400 Ohms
Loop Current Must Be Within Test Limit Mask Within 20m Secs Of Reference Moment Of Line Seizure (t1-t0)
t1 - t0 (Time To Reach First Test Limit Point): 0.9091m Secs
t1 - t0 (Time To Reach First Test Limit Point) Status: **Pass**
Loop Current Fell Below Lower Test Limit Mask For A Total Aggregated Period Of 0 Secs
Status Against Lower Test Limits: **Pass**

Test Condition Status Pass

Testing Conducted By: Bay Area Compliance Laboratory Co. (BACL)					
Clause 4.6.2, Loop Current Characteristics					
ID	4217	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check the current/time characteristics of the EUT during the transition from quiescent to loop state comply with clause 4.6.2 of ES 203021-3				
EUT Details	Sample Number: 0001, Modification State: 00 Sample Number: 0002, Modification State: 00				
Operating State	Test Condition 6: Test Condition 6: 50Vdc, 400ohms				
Test Class	Engineering Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 6

Test Description: Test Condition 6: 50Vdc, 400ohms
DC Feed Voltage: 50 Vdc
Feed Resistance: 400 Ohms
Feed Polarity Reverse Polarity
Type Of Test: On Hook To Off Hook
After Configuring Test Wait 60 Secs Before Starting Test
EUT Must Release Line Within 30 Secs Of A Power Failure
Reference Point For Line Seizure/Line Release 100u A
Reference Point For Line Seizure/Line Release Qualification Time: 5m Secs
EUT current must be within limit mask within 20m Secs Of Passing Reference Point For Line Seizure/Line Release
Apply Test Limit For EUT Current To Be Within Limit Mask: 1 (0 = Do Not Apply, 1 = Apply)
Qualification Time For EUT Current Being Within Limit Mask: 5m Secs
Maximum (aggregated) Time That EUT Current Is Allowed Outside Mask Limits: 7m Secs
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Current Within 20% Of Lower Test Limits Lowest Limit Point: 1.214%
Measured Current Within 20% Of Lower Test Limits Highest Limit Point: 1.214%
Measured Current Within 20% Of Upper Test Limits Lowest Limit Point: N/A
Measured Current Within 20% Of Upper Test Limits Highest Limit Point: N/A
Measured Timing: 0.105mSecs

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.6.3, On hook to off hook transition with ringing without DC						
ID	4218	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check that the current / time characteristics of the TE during the transition from quiescent to loop state,for ringing without DC,when the transition occurs during a ringing pulse,comply requirement.					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Cause the TE to make a transition to loop state during a ring pulse					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	**25**	**Humidity(%)**	**56**	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass

Test Condition, Loop State

Measurement Type: On Hook To Off Hook
DC Feed Voltage: 50 Vdc, DC Feed Resistance: 300 Ohms and 2.7k Ohms.
AC Feed Voltage: 50Vrms, AC Feed Resistance: 700 Ohms and 1.6k Ohms.
Ring Signal Frequency: 25Hz and 50 Hz
The time is 455ms,which measures the value of start of on-hook transition after start of ringing pulse.

Test Result: Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.6.4, Ring trip						
ID	4219	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check that the current of the TE during the transition from quiescent to loop state,comply requirement.					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Cause the TE to make a transition to loop state during a ring without DC.					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	**25**	**Humidity(%)**	**56**	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass

Test Condition, Quiescent state to Loop State

Measurement Type: Quiescent state to Loop State during a ring without DC.
DC Feed Voltage: 50 Vdc, DC Feed Resistance: 850 Ohms.
Voltage of the Ringing source: 50Vrms,impedance of the ringing source: 800 Ohms.
Before measuring,keep the TE in quiescent state for 1 minute.
In sequence,send the ring 50 Vrms without DC using,and then cause the TE to make a transition from the quiescent to the loop state.
The AC current to the TE is 42.3 mA , which measures the effective value of the AC current.

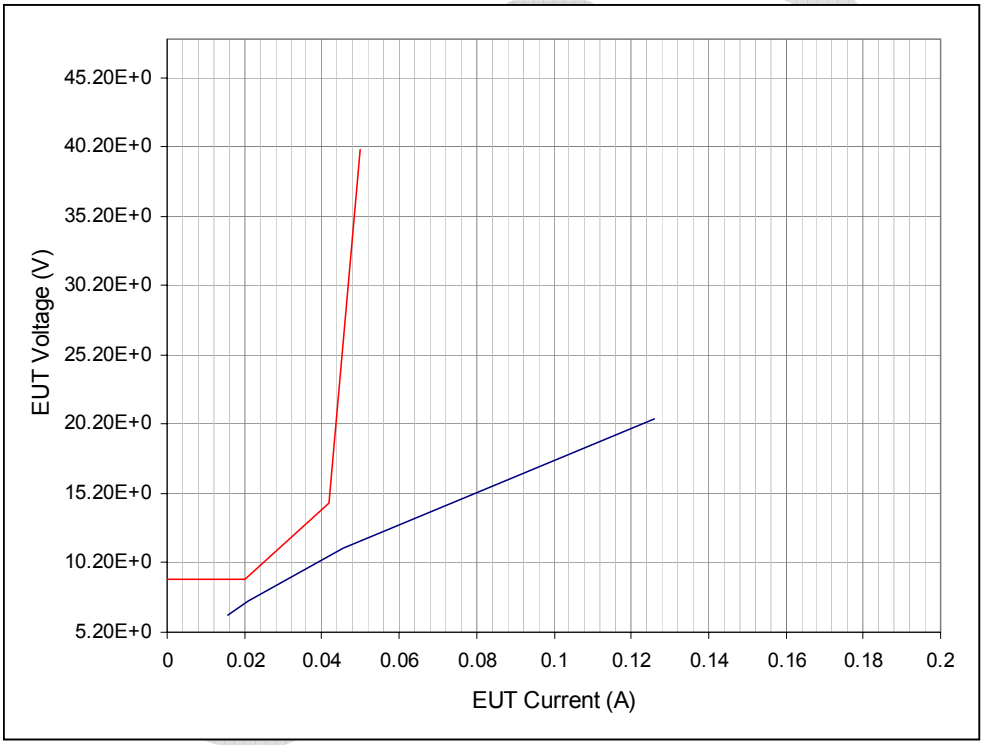
Test Result: Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.7.1, DC Characteristics						
ID	4220	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To verify the steady state DC loop characteristics are within test limits					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Off Hook (On Line), Test Condition 1: Test Condition 1					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 1, Test Condition 1

Measurement Type: Off Hook DC Characteristics
DC Feed Voltage: 50 Vdc, Initial Feed Circuit Polarity: Normal Polarity
Change Feed Polarity Between Measurement Points: 1 (0 = Do Not Change, 1 = Change)

Test Ohms	EUT V	EUT A	EUT Ohms
2.3k	6.426	15.59m	412.2
2.05k	7.425	20.76m	357.6
850	11.31	45.42m	249
230	20.64	0.1261	163.7

Status Against Upper Limits: **Pass**

Status Against EUT Current Limit **Pass**

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.7.1, DC Characteristics

ID	4220	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To verify the steady state DC loop characteristics are within test limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (On Line), Test Condition 1: Test Condition 1				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Test Condition Status: Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.7.1, DC Characteristics					
ID	4220	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To verify the steady state DC loop characteristics are within test limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (On Line), Test Condition 1: Test Condition 1				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:03:54	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 1

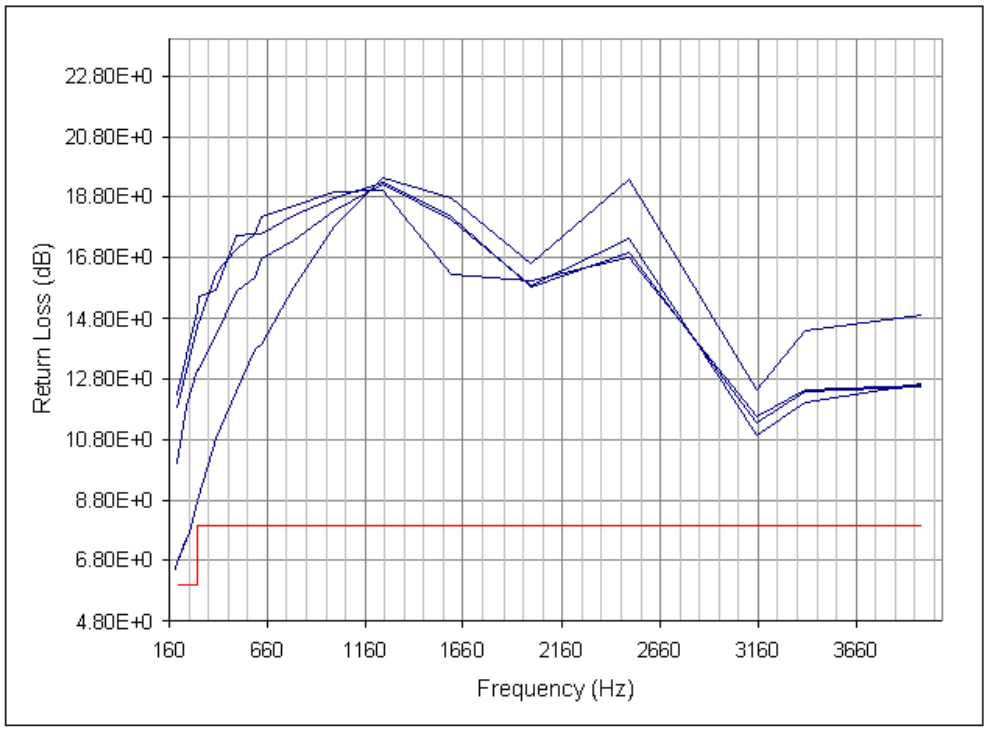
Test Description: Test Condition 1
DC Feed Voltage: 50 Vdc
DC Current: 0.12 A
Feed Resistance: 400 Ohms
Feed Polarity: Normal Polarity
EUT Is Off Hook When Current Exceeds: 4m A
Type Of Measurement: Off Hook DC Characteristics
Method Of Measurement: Adjustable Resistance
Resistances (Ohms) Used For Adjustable Resistance Test Method: 2.3k, 2.05k, 850, 400
Time Waited Between Measurement Points: 60 Secs
Time Waited After Configuring Measurement Point Before Taking Measurements: 3 Secs
Measurements Taken For: 0.2 Secs
Between Measurement Points Change Feed Polarity: 1 (0 = Do Not Change, 1 = Change)
Between Measurement Points Take EUT On Hook: 1 (0 = Leave Off Hook, 1 = Go On Hook)
Between Measurement Points Disconnect Feed Circuit From EUT: 0 (0 =Leave Connected, 1 = Disconnect)
Short Circuit EUT When Disconnected From Feed Bridge: 0 (0 = Open Circuit, 1 = Short Circuit)
Results Are Based On: Average Measured Value Over Defined Measurement Time
Graph Type: Voltage/Current
Use Lower Test Limits: 0 (0 = Do Not Use, 1 = Use)
Use Upper Test Limits: 1 (0 = Do Not Use, 1 = Use)
For Lower Test Limits: , Please see test results
For Upper Test Limits, Please see test results
Test For EUT Current Limit: 1 (0 = Do Not Test, 1 = Test)
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Values
Measurement Point 1: 1.197%
Measurement Point 2: 1.234%
Measurement Point 3: 1.306%
Measurement Point 4: 1.336%

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.7.2, Impedance In The Loop State						
ID	4221	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To verify that the return loss of the EUT input impedance in the loop state in relation to the reference impedance ZR is within the specified limits					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:19:36	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 1, Test Condition 1: 2k3 Ohms Feed Resistor, Normal Polarity

Measurement Type: Off Hook Return Loss
DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 2.3k Ohms
EUT Operating State: Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)
Reference Impedance: 270R+(750R//0.15uF)

Freq (Hz)	Mag (Ohms)	Phase (Deg)	Real (Ohms)	Imag (Ohms)	Return Loss (dB)
200	983.9	21.4	916.1	359	12.28
250	1.017k	16.32	975.7	285.6	13.58
300	1.028k	11.11	1.009k	198.1	15.1
315	1.035k	9.655	1.02k	173.5	15.55

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.7.2, Impedance In The Loop State

ID	4221	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To verify that the return loss of the EUT input impedance in the loop state in relation to the reference impedance ZR is within the specified limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:19:36	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

400	1.093k	6.146	1.087k	117	15.71
500	1.075k	-0.2801	1.075k	-5.253	17.55
600	1.084k	-3.754	1.082k	-70.98	17.61
630	1.076k	-5.513	1.071k	-103.4	18.15
800	1.058k	-11.14	1.038k	-204.4	18.51
1k	1.026k	-17.86	976.7	-314.6	18.98
1.25k	969	-23.79	886.7	-390.9	19.01
1.6k	945.6	-26.09	849.3	-415.8	16.25
2k	859.3	-37.64	680.5	-524.7	16.05
2.5k	714.1	-43.69	516.4	-493.2	16.78
3.15k	790.6	-48.02	528.8	-587.8	11.56
3.4k	603.1	-57.56	323.5	-509	12.45
4k	575.8	-54.06	337.9	-466.2	12.6

Return Loss Status Against Lower Limits: **Pass**
Reactive Component Assessed In The Frequency Band: 200 Hz, To 300 Hz
Measured Reactive Component Of Impedance Must Be <= 500 Ohms
Reactive Component Status Against Upper Limit: **Pass**

Test Condition Status: Pass

Test Condition 2, Test Condition 2: 2050 Ohms Feed Resistor, Reverse Polarity

Measurement Type: Off Hook Return Loss
DC Feed Voltage: 50 Vdc, Reverse Polarity, DC Feed Resistance: 2.05k Ohms
EUT Operating State: Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)
Reference Impedance: 270R+(750R//0.15uF)

Freq (Hz)	Mag (Ohms)	Phase (Deg)	Real (Ohms)	Imag (Ohms)	Return Loss (dB)
200	956.2	22.67	882.3	368.5	11.83
250	994.7	17.68	947.7	302.2	13.07
300	1.035k	12.38	1.011k	221.8	14.55
315	1.032k	11.75	1.01k	210.1	14.64
400	1.052k	5.506	1.047k	100.9	16.3
500	1.076k	0.6631	1.076k	12.46	17.04
600	1.07k	-3.291	1.069k	-61.45	17.58
630	1.087k	-4.832	1.083k	-91.57	17.62
800	1.065k	-10.91	1.046k	-201.7	18.23
1k	1.035k	-17.97	984.2	-319.3	18.76

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.7.2, Impedance In The Loop State

ID	4221	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To verify that the return loss of the EUT input impedance in the loop state in relation to the reference impedance ZR is within the specified limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:19:36	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

1.25k	963.7	-23.97	880.6	-391.5	19.26
1.6k	877.5	-25.16	794.3	-373	18.16
2k	865.7	-37.9	683.1	-531.7	15.83
2.5k	710.6	-43.59	514.6	-490	16.93
3.15k	804	-47.65	541.6	-594.2	11.38
3.4k	600	-58.11	316.9	-509.5	12.35
4k	578	-54.05	339.3	-467.9	12.56

Return Loss Status Against Lower Limits: **Pass**
Reactive Component Assessed In The Frequency Band: 200 Hz, To 300 Hz
Measured Reactive Component Of Impedance Must Be <= 500 Ohms
Reactive Component Status Against Upper Limit: **Pass**

Test Condition Status: Pass

Test Condition 3, Test Condition 3: 850 Ohms Feed Resistor, Normal Polarity

Measurement Type: Off Hook Return Loss
DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 850 Ohms
EUT Operating State: Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)
Reference Impedance: 270R+(750R//0.15uF)

Freq (Hz)	Mag (Ohms)	Phase (Deg)	Real (Ohms)	Imag (Ohms)	Return Loss (dB)
200	886.5	28.58	778.4	424.1	9.975
250	950.5	21.04	887.1	341.2	11.89
300	984.5	16.17	945.6	274.2	13.11
315	1.008k	15.71	970.4	272.9	13.12
400	1.033k	10.33	1.017k	185.3	14.22
500	1.051k	3.94	1.049k	72.23	15.68
600	1.049k	0.1465	1.049k	2.682	16.14
630	1.067k	-2.361	1.066k	-43.95	16.72
800	1.07k	-9.065	1.056k	-168.5	17.33
1k	1.033k	-16.75	989.3	-297.8	18.38
1.25k	959.2	-23.16	881.9	-377.3	19.21
1.6k	869.8	-23.98	794.7	-353.6	18.06
2k	863.7	-37.8	682.4	-529.4	15.9
2.5k	695.1	-43.84	501.3	-481.5	17.43
3.15k	834.2	-47.17	567.1	-611.7	10.93
3.4k	588.2	-60.03	293.8	-509.5	11.99

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.7.2, Impedance In The Loop State

ID	4221	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To verify that the return loss of the EUT input impedance in the loop state in relation to the reference impedance ZR is within the specified limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:19:36	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

4k	577	-53.72	341.4	-465.2	12.66

Return Loss Status Against Lower Limits: **Pass**
Reactive Component Assessed In The Frequency Band: 200 Hz, To 300 Hz
Measured Reactive Component Of Impedance Must Be <= 500 Ohms
Reactive Component Status Against Upper Limit: **Pass**

Test Condition Status: Pass

Test Condition 4, Test Condition 4: 400 Ohms Feed Resistor, Reverse Polarity

Measurement Type: Off Hook Return Loss
DC Feed Voltage: 50 Vdc, Reverse Polarity, DC Feed Resistance: 400 Ohms
EUT Operating State: Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)
Reference Impedance: 270R+(750R//0.15uF)

Freq (Hz)	Mag (Ohms)	Phase (Deg)	Real (Ohms)	Imag (Ohms)	Return Loss (dB)
200	628.8	42.64	462.5	426	6.138
250	727.7	36.19	587.3	429.7	7.342
300	810.3	29.88	702.6	403.7	8.74
315	826.4	28.88	723.6	399.1	8.942
400	911.3	20.14	855.6	313.8	10.87
500	948.6	12.96	924.5	212.7	12.36
600	1.008k	6.283	1.002k	110.3	13.78
630	995	5.26	990.9	91.23	13.92
800	999	-3.596	997	-62.66	15.82
1k	974.5	-12.39	951.8	-209.2	17.85
1.25k	908.2	-19.33	857	-300.7	19.41
1.6k	814.2	-21.54	757.4	-298.9	18.76
2k	847.3	-34.75	696.2	-483	16.59
2.5k	668.7	-41.5	500.8	-443.1	19.39
3.15k	749.8	-47.27	508.8	-550.8	12.45
3.4k	538.2	-54.94	309.1	-440.5	14.38
4k	526.8	-50.13	337.7	-404.3	14.91

Return Loss Status Against Lower Limits: **Pass**
Reactive Component Assessed In The Frequency Band: 200 Hz, To 300 Hz
Measured Reactive Component Of Impedance Must Be <= 500 Ohms
Reactive Component Status Against Upper Limit: **Pass**

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.7.2, Impedance In The Loop State					
ID	4221	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To verify that the return loss of the EUT input impedance in the loop state in relation to the reference impedance ZR is within the specified limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:19:36	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Test Condition Status: Pass

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.7.2, Impedance In The Loop State					
ID	4221	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To verify that the return loss of the EUT input impedance in the loop state in relation to the reference impedance ZR is within the specified limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:19:36	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 1

Test Description: Test Condition 1: 2k3 Ohms Feed Resistor, Normal Polarity
Disconnect Feed Bridge During Measurement: 0 (0 = feed bridge connected, 1 = feed bridge disconnected)
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Feed Current As Priority: 0 (0 = not set, 1 = set)
Feed Resistance: 2.3k Ohms
Set Feed Resistance As Priority 1 (0 = not set, 1 = set)
Feed Polarity Normal Polarity
Feed Circuit Inductance: 10H
Feed Bridge DC Blocking Capacitors Per Leg: 500u F
EUT is Off Hook When DC Line Current Exceeds: 5m A
Required EUT Operating State: Off Hook
Reference Impedance Rs: 270 Ohms

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.7.2, Impedance In The Loop State

ID	4221	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To verify that the return loss of the EUT input impedance in the loop state in relation to the reference impedance ZR is within the specified limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:19:36	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Reference Impedance Rp: 750 Ohms
Reference Impedance Cp: 0.15u F
Measurement Type Off Hook Return Loss
AC Test Signal Voltage: 0.316 Vrms
Calibrate AC Test Signal Voltage At: EUT
AC Test Frequencies: 200Hz, 250Hz, 300Hz, 315Hz, 400Hz, 500Hz, 600Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 3.4kHz, 4kHz
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
Reference Impedance: 270R+(750R//0.15uF)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Reactive Component Low Frequency: 200 Hz
Reactive Component High Frequency: 300 Hz
Apply Reactive Component Minimum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Reactive Component Must Be Less Than: 500 Ohms
Apply Reactive Component Maximum Limit: 1 (0 = Do Not Apply, 1 = Apply)
Apply Impedance Phase Angle Minimum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Apply Impedance Phase Angle Maximum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Magnitude Impedance: 2.304%
Measured Impedance Phase Angle: 32m degrees
Return Loss: 1dB

TestCondition 2

Test Description: Test Condition 2: 2050 Ohms Feed Resistor, Reverse Polarity
Disconnect Feed Bridge During Measurement: 0 (0 = feed bridge connected, 1 = feed bridge disconnected)
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Feed Current As Priority: 0 (0 = not set, 1 = set)
Feed Resistance: 2.05k Ohms
Set Feed Resistance As Priority 1 (0 = not set, 1 = set)
Feed Polarity Reverse Polarity
Feed Circuit Inductance: 10H
Feed Bridge DC Blocking Capacitors Per Leg: 500u F
EUT is Off Hook When DC Line Current Exceeds: 5m A
Required EUT Operating State: Off Hook
Reference Impedance Rs: 270 Ohms
Reference Impedance Rp: 750 Ohms

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.7.2, Impedance In The Loop State

ID	4221	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To verify that the return loss of the EUT input impedance in the loop state in relation to the reference impedance ZR is within the specified limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:19:36	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Reference Impedance Cp: 0.15u F
Measurement Type Off Hook Return Loss
AC Test Signal Voltage: 0.316 Vrms
Calibrate AC Test Signal Voltage At: EUT
AC Test Frequencies: 200Hz, 250Hz, 300Hz, 315Hz, 400Hz, 500Hz, 600Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 3.4kHz, 4kHz
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
Reference Impedance: 270R+(750R//0.15uF)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Reactive Component Low Frequency: 200 Hz
Reactive Component High Frequency: 300 Hz
Apply Reactive Component Minimum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Reactive Component Must Be Less Than: 500 Ohms
Apply Reactive Component Maximum Limit: 1 (0 = Do Not Apply, 1 = Apply)
Apply Impedance Phase Angle Minimum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Apply Impedance Phase Angle Maximum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Magnitude Impedance: 1.464%
Measured Impedance Phase Angle: 32m degrees
Return Loss: 1dB

TestCondition 3

Test Description: Test Condition 3: 850 Ohms Feed Resistor, Normal Polarity
Disconnect Feed Bridge During Measurement: 0 (0 = feed bridge connected, 1 = feed bridge disconnected)
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Feed Current As Priority: 0 (0 = not set, 1 = set)
Feed Resistance: 850 Ohms
Set Feed Resistance As Priority 1 (0 = not set, 1 = set)
Feed Polarity Normal Polarity
Feed Circuit Inductance: 10H
Feed Bridge DC Blocking Capacitors Per Leg: 500u F
EUT is Off Hook When DC Line Current Exceeds: 5m A
Required EUT Operating State: Off Hook
Reference Impedance Rs: 270 Ohms
Reference Impedance Rp: 750 Ohms
Reference Impedance Cp: 0.15u F

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.7.2, Impedance In The Loop State

ID	4221	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To verify that the return loss of the EUT input impedance in the loop state in relation to the reference impedance ZR is within the specified limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:19:36	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Measurement Type Off Hook Return Loss
AC Test Signal Voltage: 0.316 Vrms
Calibrate AC Test Signal Voltage At: EUT
AC Test Frequencies: 200Hz, 250Hz, 300Hz, 315Hz, 400Hz, 500Hz, 600Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 3.4kHz, 4kHz
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
Reference Impedance: 270R+(750R//0.15uF)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Reactive Component Low Frequency: 200 Hz
Reactive Component High Frequency: 300 Hz
Apply Reactive Component Minimum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Reactive Component Must Be Less Than: 500 Ohms
Apply Reactive Component Maximum Limit: 1 (0 = Do Not Apply, 1 = Apply)
Apply Impedance Phase Angle Minimum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Apply Impedance Phase Angle Maximum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Magnitude Impedance: 2.267%
Measured Impedance Phase Angle: 32m degrees
Return Loss: 0.7313dB

TestCondition 4

Test Description: Test Condition 4: 400 Ohms Feed Resistor, Reverse Polarity
Disconnect Feed Bridge During Measurement: 0 (0 = feed bridge connected, 1 = feed bridge disconnected)
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Feed Current As Priority: 0 (0 = not set, 1 = set)
Feed Resistance: 400 Ohms
Set Feed Resistance As Priority 1 (0 = not set, 1 = set)
Feed Polarity Reverse Polarity
Feed Circuit Inductance: 10H
Feed Bridge DC Blocking Capacitors Per Leg: 500u F
EUT is Off Hook When DC Line Current Exceeds: 5m A
Required EUT Operating State: Off Hook
Reference Impedance Rs: 270 Ohms
Reference Impedance Rp: 750 Ohms
Reference Impedance Cp: 0.15u F
Measurement Type Off Hook Return Loss

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.7.2, Impedance In The Loop State

ID	4221	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To verify that the return loss of the EUT input impedance in the loop state in relation to the reference impedance ZR is within the specified limits				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Off Hook (On Line) Quiet (No Signals Being Transmitted To Line)				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:19:36	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

AC Test Signal Voltage: 0.316 Vrms
Calibrate AC Test Signal Voltage At: EUT
AC Test Frequencies: 200Hz, 250Hz, 300Hz, 315Hz, 400Hz, 500Hz, 600Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 3.4kHz, 4kHz
Apply Lower Test Limits: 1 (0 = do not use, 1= use)
Apply Upper Test Limits: 0 (0 = do not use, 1= use)
Reference Impedance: 270R+(750R//0.15uF)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Reactive Component Low Frequency: 200 Hz
Reactive Component High Frequency: 300 Hz
Apply Reactive Component Minimum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Reactive Component Must Be Less Than: 500 Ohms
Apply Reactive Component Maximum Limit: 1 (0 = Do Not Apply, 1 = Apply)
Apply Impedance Phase Angle Minimum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Apply Impedance Phase Angle Maximum Limit: 0 (0 = Do Not Apply, 1 = Apply)
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Magnitude Impedance: 2.249%
Measured Impedance Phase Angle: 32m degrees
Return Loss: 0.4842dB

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.8.1.1, Dialling Without Dial Tone Detection					
ID	4230	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check that the EUT starts dialling within the allowed period after line seizure				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Type Of EUT: DTMF Dialling, Test Condition 1: Dialling without Dial Tone				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:42:31	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Test Condition 1, Dialling without Dial Tone

EUT Must Not Dial Until At Least 2.7 Secs After Line Seizure
EUT Must Dial Within 8 Secs After Line Seizure

Summary Of Telephone Numbers Dialled	Attempts
123456789	1

Call Details	Status
Call Attempt Number 1	
EUT Seized Telephone Line At: 14:42:04 PM	
EUT Dialled Telephone Number: 123456789	
EUT Started Dialling 1.793 Secs After EUT Went Off Hook	Pass

Test Condition Status: Pass

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.8.1.1, Dialling Without Dial Tone Detection					
ID	4230	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check that the EUT starts dialling within the allowed period after line seizure				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Type Of EUT: DTMF Dialling, Test Condition 1: Dialling without Dial Tone				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:42:31	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 1

Test Description: Dialling without Dial Tone
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set DC Feed Current As Priority: 0 (0 = Do not set, 1 = set)
Feed Resistance: 850 Ohms
Set Feed Resistance As Priority 1 (0 = Do Not Set, 1 = Set)
Feed Circuit Polarity: Normal Polarity
Feed Circuit Inductance Per Leg: 10H
EUT Is Off Hook When Loop Current Exceeds: 5m A
Terminating Impedance Rs: 270 Ohms
Terminating Impedance Rp: 750 Ohms
Terminating Impedance Cp: 0.15u F
Terminating Impedance: 270R+(750R//0.15uF)
Apply Line Seizure & Dialling Tests: 1 (0 = Do Not Apply, 1 = Apply)
Type Of Dialling Test: EUT Must Dial
Turn Off Dial Tone: 1 (0 = Dial Tone Generated, 1 = No Dial Tone Generated)
Dial Tone Level Adjusted By: 0 dB
EUT Must Not Dial Limits: EUT Must Not Dial Until At Least 2.7 Secs After Line Seizure
Apply EUT Must Not Dial Limit: 1 (0 = Do Not Apply, 1 = Apply)
EUT Must Dial Limits: EUT Must Dial Within 8 Secs After Line Seizure
Apply EUT Must Dial Limit: 1 (0 = Do Not Apply, 1 = Apply)
Apply Line Release Tests: 0 (0 = Do Not Apply, 1 = Apply)
Turn Off Call Progress Tone: 0 (0 = Call Progress Tone Turned On, 1 = Call Progress Tone Turned Off)
Call Progress Tone Level Adjusted By: 0 dB
Apply Repeat Attempts Tests: 0 (0 = Do Not Apply, 1 = Apply)
Dial Tone Cadence 1 Oscillator 1 Frequency: 300 Hz
Dial Tone Cadence 1 Oscillator 1 Level: -0.7 dB
Dial Tone Cadence 1 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 1 Oscillator 2 Level: -70 dB
Dial Tone Cadence 1 On Period: 100m Secs
Dial Tone Cadence 1 Off Period: 0 Secs
Dial Tone Cadence 2 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 2 Oscillator 1 Level: -70 dB
Dial Tone Cadence 2 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 2 Oscillator 2 Level: -70 dB
Dial Tone Cadence 2 On Period: 0 Secs
Dial Tone Cadence 2 Off Period: 0 Secs
Dial Tone Cadence 3 Oscillator 1 Frequency: 0 Hz

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.1.1, Dialling Without Dial Tone Detection

ID	4230	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check that the EUT starts dialling within the allowed period after line seizure				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Type Of EUT: DTMF Dialling, Test Condition 1: Dialling without Dial Tone				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:42:31	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Dial Tone Cadence 3 Oscillator 1 Level: -70 dB
Dial Tone Cadence 3 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 3 Oscillator 2 Level: -70 dB
Dial Tone Cadence 3 On Period: 0 Secs
Dial Tone Cadence 3 Off Period: 0 Secs
Dial Tone Cadence 4 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 4 Oscillator 1 Level: -70 dB
Dial Tone Cadence 4 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 4 Oscillator 2 Level: -70 dB
Dial Tone Cadence 4 On Period: 0 Secs
Dial Tone Cadence 4 Off Period: 0 Secs
Dial Tone Cadence 5 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 5 Oscillator 1 Level: -70 dB
Dial Tone Cadence 5 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 5 Oscillator 2 Level: -70 dB
Dial Tone Cadence 5 On Period: 0 Secs
Dial Tone Cadence 5 Off Period: 0 Secs
Dial Tone dB reference: dBV
Generate Dial Tone Continuously: 1 (0 = Cadenced, 1 = Continuous)
Call Progress Tone Cadence 1 Oscillator 1 Frequency: 400 Hz
Call Progress Tone Cadence 1 Oscillator 1 Level: -10 dB
Call Progress Tone Cadence 1 Oscillator 2 Frequency: 0 Hz
Call Progress Tone Cadence 1 Oscillator 2 Level: -70 dB
Call Progress Tone Cadence 1 On Period: 0.5 Secs
Call Progress Tone Cadence 1 Off Period: 0.5 Secs
Call Progress Tone Cadence 2 Oscillator 1 Frequency: 0 Secs
Call Progress Tone Cadence 2 Oscillator 1 Level: -70 dB
Call Progress Tone Cadence 2 Oscillator 2 Frequency: 0 Hz
Call Progress Tone Cadence 2 Oscillator 2 Level: -70 dB
Call Progress Tone Cadence 2 On Period: 0 Secs
Call Progress Tone Cadence 2 Off Period: 0 Secs
Call Progress Tone Cadence 3 Oscillator 1 Frequency: 0 Hz
Call Progress Tone Cadence 3 Oscillator 1 Level: -70 dB
Call Progress Tone Cadence 3 Oscillator 2 Frequency: 0 Hz
Call Progress Tone Cadence 3 Oscillator 2 Level: -70 dB
Call Progress Tone Cadence 3 On Period: 0 Secs
Call Progress Tone Cadence 3 Off Period: 0 Secs
Call Progress Tone Cadence 4 Oscillator 1 Frequency: 0 Hz
Call Progress Tone Cadence 4 Oscillator 1 Level: -70 dB
Call Progress Tone Cadence 4 Oscillator 2 Frequency: 0 Hz
Call Progress Tone Cadence 4 Oscillator 2 Level: -70 dB
Call Progress Tone Cadence 4 On Period: 0 Secs

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.1.1, Dialling Without Dial Tone Detection

ID	4230	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check that the EUT starts dialling within the allowed period after line seizure				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Type Of EUT: DTMF Dialling, Test Condition 1: Dialling without Dial Tone				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 14:42:31	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Call Progress Tone Cadence 4 Off Period: 0 Secs
Call Progress Tone Cadence 5 Oscillator 1 Frequency: 0 Hz
Call Progress Tone Cadence 5 Oscillator 1 Level: -70 dB
Call Progress Tone Cadence 5 Oscillator 2 Frequency: 0 Hz
Call Progress Tone Cadence 5 Oscillator 2 Level: -70 dB
Call Progress Tone Cadence 5 On Period: 0 Secs
Call Progress Tone Cadence 5 Off Period: 0 Secs
Call Progress Tone dB Reference: dBV
Generate Call Progress Tone As A Continuous Tone: 0 (0 = Cadenced, 1 = Continuous)
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured EUT Timings: 57.74m Secs
Tone Levels Between -48dB and -37dB: 2.75 dB
Tone Levels Between -37dB and -10dB: 1 dB
Tone Levels Above -10dB: 0.4 dB
Tone Frequencies: 0.1155%
Tone Cadence Timings: 0.1155%

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.8.2.1, DTMF Signalling Frequency Combinations						
ID	4231	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check whether the EUT sends appropriate DTMF signal frequency combinations					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Test Condition 1: Frequency Combinations					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 15:13:01	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass

Test Condition 1, Frequency Combinations

DC Feed Voltage: 50 Vdc, Feed Resistance 850 Ohms, Feed Circuit Polarity: Normal Polarity
Terminating Impedance 270R+(750R//0.15uF)

Expected EUT To Dial: 1234567890*#, EUT Dialled: 1234567890*#
Dialled Digit Status: **Pass**

DTMF Digit Coding & Frequencies Must Comply With ITU-T Rec. Q23 With A Frequency Tolerance Of: 1.5 %

DTMF Digit Coding

Digits	Low Freq (Hz)	% Dev	Status	High Freq (Hz)	%Dev	Status
1	700	0.4304	Pass	1204	0.4136	Pass
2	700	0.4304	Pass	1333	0.2246	Pass
3	700	0.4304	Pass	1473	0.2708	Pass
4	772	0.2597	Pass	1204	0.4136	Pass
5	772	0.2597	Pass	1333	0.2246	Pass
6	772	0.2597	Pass	1473	0.2708	Pass
7	855	0.3521	Pass	1204	0.4136	Pass
8	855	0.3521	Pass	1333	0.2246	Pass
9	855	0.3521	Pass	1473	0.2708	Pass
0	941	0	Pass	1333	0.2246	Pass
*	941	0	Pass	1204	0.4136	Pass
#	941	0	Pass	1473	0.2708	Pass

Low Group Frequency Deviation Status **Pass**
High Group Frequency Deviation Status **Pass**

Test Condition Status: Pass

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.8.2.1, DTMF Signalling Frequency Combinations					
ID	4231	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the EUT sends appropriate DTMF signal frequency combinations				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Frequency Combinations				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:13:01	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 1

Test Description: Frequency Combinations
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set Feed Current As Priority: 0 (0= No Priority, 1 = Priority)
Feed Resistance: 850 Ohms
Set Feed Resistance As Priority: 1 (0 = No Priority, 1= Priority)
Feed Circuit Polarity: Normal Polarity
Feed Circuit Inductance Per Leg: 10H
Feed Bridge DC Block Capacitance Per Leg: 500u F
EUT Is Off Hook When Loop Current Exceeds: 12.8m A
Terminating Impedance Rs: 270 Ohms
Terminating Impedance Rp: 750 Ohms
Terminating Impedance Cp: 0.15u F
Terminating Impedance: 270R+(750R//0.15uF)
Artificial Line Used During Test: None
Connect External Analyser During Test: 0 (0 = Do Not Connect, 1 = Connect)
Allowable Frequency Deviation On DTMF Coding: 1.5 %
Test DTMF Coding And Frequencies: 1 (0 = Do Not Test, 1 = Test)
Test Minimum Tone Duration Limit: 0 (0=Do Not Test, 1 = Test)
Test Maximum Tone Duration Limit: 0 (0 = Do Not Test, 1 = Test)
Test Interdigit (Pause) Duration Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Interdigit (Pause) Duration Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duration of Tone + Interdigit (Pause) Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duration of Tone + Interdigit (Pause) Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duty Cycle (Tone/Pause) Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duty Cycle (Tone/Pause) Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Threshold For Tone Timing Measurements: 90 % Of Maximum Tone Amplitude
Threshold For Pause Timing Measurements: 10 % Of Maximum Tone Amplitude
Units Used For Tone Level Measurements dBV
Test High Group Minimum Level Limit: 0 (0 = Do Not Test, 1 = Test)
Test High Group Maximum Level Limit: 0 (0 = Do Not Test, 1 = Test)
Test Low Group Minimum Level Limit: 0 (0 = Do Not Test, 1 = Test)
Test Low Group Maximum Level Limit: 0 (0 = Do Not Test, 1 = Test)
Test Combined Tone Level Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Combined Tone Level Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Pre-emphasis (Twist) Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Pre-emphasis (Twist) Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Total Unwanted Power: 0 (0 = Do Not Test, 1 = Test)

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.2.1, DTMF Signalling Frequency Combinations

ID	4231	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the EUT sends appropriate DTMF signal frequency combinations				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Frequency Combinations				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:13:01	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Test Power Levels Of Individual Unwanted Frequency Components: 0 (0 = Do Not Test, 1 = Test)
Unwanted Power Levels Limits Are: Relative To Low Group Tone Level
Units Used For Measured Power During Interdigit Pause: dBV
Test Power Level During Interdigit Pause: 0 (0 = Do Not Test, 1 = Test)
Measured Power Level During Interdigit Pause: 1 (0 = Maximum Level Of Individual Frequencies, 1 = Total Power Level In Band)
Test Rise Time: 0 (0 = Do Not Test, 1 = Test)
Test Fall Time: 0 (0 = Do Not Test, 1 = Test)
Enable Special Features: 0 (0 = Do Not Enable, 1 = Enable)
Applied Dial Tone: Nominal 400Hz Dial Tone At -10 dBV
Dial Tone Cadence 1 Oscillator 1 Frequency: 400 Hz
Dial Tone Cadence 1 Oscillator 1 Level: -10 dB
Dial Tone Cadence 1 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 1 Oscillator 2 Level: -70 dB
Dial Tone Cadence 1 On Period: 100m Secs
Dial Tone Cadence 1 Off Period: 0 Secs
Dial Tone Cadence 2 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 2 Oscillator 1 Level: -70 dB
Dial Tone Cadence 2 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 2 Oscillator 2 Level: -70 dB
Dial Tone Cadence 2 On Period: 0 Secs
Dial Tone Cadence 2 Off Period: 0 Secs
Dial Tone Cadence 3 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 3 Oscillator 1 Level: -70 dB
Dial Tone Cadence 3 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 3 Oscillator 2 Level: -70 dB
Dial Tone Cadence 3 On Period: 0 Secs
Dial Tone Cadence 3 Off Period: 0 Secs
Dial Tone Cadence 4 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 4 Oscillator 1 Level: -70 dB
Dial Tone Cadence 4 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 4 Oscillator 2 Level: -70 dB
Dial Tone Cadence 4 On Period: 0 Secs
Dial Tone Cadence 4 Off Period: 0 Secs
Dial Tone Cadence 5 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 5 Oscillator 1 Level: -70 dB
Dial Tone Cadence 5 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 5 Oscillator 2 Level: -70 dB
Dial Tone Cadence 5 On Period: 0 Secs
Dial Tone Cadence 5 Off Period: 0 Secs
Dial Tone dB reference: dBV
Generate Dial Tone Continuously: 1 (0 = Cadenced, 1 = Continuous)
Do Not Generate Dial Tone 0 (0 = Generate Dial Tone, 1 = Do Not Generate Dial Tone)

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.2.1, DTMF Signalling Frequency Combinations

ID	4231	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the EUT sends appropriate DTMF signal frequency combinations				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Frequency Combinations				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:13:01	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Turn Off Dial Tone After First Digit Is Dialled: 1 (0 = Do Not Turn Off Dial Tone, 1 = Turn Off Dial Tone)

Measurement Uncertainty Information

Expanded Uncertainty, Coverage Factor K=2

Dial Tone Levels Between -48dB and -37dB: 2.75 dB

Dial Tone Levels Between -37dB and -10dB: 1 dB

Dial Tone Levels Above -10dB: 0.4 dB

Dial Tone Frequencies: 0.1155%

Dial Tone Cadence Timings: 0.1155%

Measured DTMF Timings: 76.21u Secs

Measured DTMF Frequencies: 0.5774Hz

Worst Case DTMF Power Level: 0.15 dB

Unwanted DTMF Power Level: 3.47 dB

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.2.2, DTMF Signalling Levels & Clause 4.8.2.3, Unwanted Frequency Components

ID	4232	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the EUT sends appropriate DTMF signals at the required signalling levels				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Clause 4.8.2.2 and Clause 4.8.2.3: 2300 Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:21:03	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Test Condition 1, Clause 4.8.2.2 and Clause 4.8.2.3: 2300 Ohms, Normal Polarity

DC Feed Voltage: 50 Vdc, Feed Resistance 2.3 k Ohms, Feed Circuit Polarity: Normal Polarity
Terminating Impedance 270R+(750R//0.15uF)

Expected EUT To Dial: 1234567890*#, EUT Dialled: 1234567890*#
Dialled Digit Status: **Pass**

DTMF High Group Tone Level Must Be>= -11.5dBV
DTMF High Group Tone Levels Must Be <= -7dBV
DTMF Low Group Tone Levels Must Be >= -13dBV
DTMF Low Group Tone Levels Must Be <= -8.5dBV
Twist (pre-emphasis) Must Be >= 1 dB
Twist (pre-emphasis) Must Be <= 4 dB

DTMF Tone Power Levels

Digits	Low (dBV)	Status	High (dBV)	Status	Twist (dB)	Status
1	-9.154	Pass	-7.78	Pass	1.374	Pass
2	-9.133	Pass	-7.781	Pass	1.352	Pass
3	-9.088	Pass	-8.004	Pass	1.084	Pass
4	-9.237	Pass	-7.781	Pass	1.456	Pass
5	-9.23	Pass	-7.793	Pass	1.437	Pass
6	-9.205	Pass	-7.991	Pass	1.214	Pass
7	-9.558	Pass	-7.778	Pass	1.78	Pass
8	-9.563	Pass	-7.794	Pass	1.769	Pass
9	-9.554	Pass	-8.004	Pass	1.551	Pass
0	-9.209	Pass	-7.79	Pass	1.419	Pass
*	-9.211	Pass	-7.777	Pass	1.433	Pass
#	-9.192	Pass	-8.001	Pass	1.191	Pass

Low Group Tone Levels Status: **Pass**
High Group Tone Levels Status: **Pass**
Twist (Pre-emphasis) Status: **Pass**

Total Unwanted Power Must Be At Least 20dB Below Low Group Tone Levels
Unwanted Power Measured In The Frequency Band: 250 Hz, To 4.3k Hz

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.2.2, DTMF Signalling Levels & Clause 4.8.2.3, Unwanted Frequency Components

ID	4232	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the EUT sends appropriate DTMF signals at the required signalling levels				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Clause 4.8.2.2 and Clause 4.8.2.3: 2300 Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:21:03	**Temp(℃)**	25	**Humidity(%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Unwanted Power Levels During DTMF Tone Generation

Digits	Total (dBV)	Status
1	-30.61	Pass
2	-31.74	Pass
3	-32.45	Pass
4	-29.85	Pass
5	-31.1	Pass
6	-32.45	Pass
7	-29.76	Pass
8	-30.35	Pass
9	-31.44	Pass
0	-30.36	Pass
*	-29.46	Pass
#	-31.08	Pass

Total Unwanted Power Status: **Pass**

Test Condition Status: Pass

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.2.2, DTMF Signalling Levels & Clause 4.8.2.3, Unwanted Frequency Components

ID	4232	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the EUT sends appropriate DTMF signals at the required signalling levels				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Clause 4.8.2.2 and Clause 4.8.2.3: 2300 Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:21:03	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 1

Test Description: Clause 4.8.2.2 and Clause 4.8.2.3: 2300 Ohms, Normal Polarity
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set Feed Current As Priority: 0 (0= No Priority, 1 = Priority)
Feed Resistance: 2.8k Ohms
Set Feed Resistance As Priority: 1 (0 = No Priority, 1= Priority)
Feed Circuit Polarity: Normal Polarity
Feed Circuit Inductance Per Leg: 10H
Feed Bridge DC Block Capacitance Per Leg: 500u F
EUT Is Off Hook When Loop Current Exceeds: 12.8m A
Terminating Impedance Rs: 270 Ohms
Terminating Impedance Rp: 750 Ohms
Terminating Impedance Cp: 0.15u F
Terminating Impedance: 270R+(750R//0.15uF)
Artificial Line Used During Test: None
Connect External Analyser During Test: 0 (0 = Do Not Connect, 1 = Connect)
Test DTMF Coding And Frequencies: 0 (0 = Do Not Test, 1 = Test)
Test Minimum Tone Duration Limit: 0 (0=Do Not Test, 1 = Test)
Test Maximum Tone Duration Limit: 0 (0 = Do Not Test, 1 = Test)
Test Interdigit (Pause) Duration Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Interdigit (Pause) Duration Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duration of Tone + Interdigit (Pause) Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duration of Tone + Interdigit (Pause) Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duty Cycle (Tone/Pause) Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duty Cycle (Tone/Pause) Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Threshold For Tone Timing Measurements: 90 % Of Maximum Tone Amplitude
Threshold For Pause Timing Measurements: 10 % Of Maximum Tone Amplitude
High Group Tone Level Must Be >= -11.5dBV
High Group Tone Level Must Be <= -7dBV
Low Group Tone Level Must Be >= -13dBV
Low Group Tone Level Must Be <= -8.5dBV
Pre-emphasis (Twist) Between Tones Must Be >= 1
Pre-emphasis (Twist) Between Tones Must Be <= 4
Units Used For Tone Level Measurements dBV
Test High Group Minimum Level Limit: 1 (0 = Do Not Test, 1 = Test)
Test High Group Maximum Level Limit: 1 (0 = Do Not Test, 1 = Test)
Test Low Group Minimum Level Limit: 1 (0 = Do Not Test, 1 = Test)

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Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.2.2, DTMF Signalling Levels & Clause 4.8.2.3, Unwanted Frequency Components

ID	4232	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the EUT sends appropriate DTMF signals at the required signalling levels				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Clause 4.8.2.2 and Clause 4.8.2.3: 2300 Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:21:03	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Test Low Group Maximum Level Limit: 1 (0 = Do Not Test, 1 = Test)
Test Combined Tone Level Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Combined Tone Level Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Pre-emphasis (Twist) Minimum Limit: 1 (0 = Do Not Test, 1 = Test)
Test Pre-emphasis (Twist) Maximum Limit: 1 (0 = Do Not Test, 1 = Test)
Minimum Frequency Band For Unwanted Power Measurements: 250 Hz
Maximum Frequency Band For Unwanted Power Measurements: 4.3k Hz
Total Unwanted Power In Band Must Be Less Than: -20 dB
Test Total Unwanted Power: 1 (0 = Do Not Test, 1 = Test)
Test Power Levels Of Individual Unwanted Frequency Components: 0 (0 = Do Not Test, 1 = Test)
Unwanted Power Levels Limits Are: Relative To Low Group Tone Level
Test Power Level During Interdigit Pause: 0 (0 = Do Not Test, 1 = Test)
Measured Power Level During Interdigit Pause: 1 (0 = Maximum Level Of Individual Frequencies, 1 = Total Power Level In Band)
Reference Impedance For dBm Measurements: 600 Ohms
Reference Voltage Level For dBV Measurements: 1 Vrms
Test Rise Time: 0 (0 = Do Not Test, 1 = Test)
Test Fall Time: 0 (0 = Do Not Test, 1 = Test)
Enable Special Features: 0 (0 = Do Not Enable, 1 = Enable)
Applied Dial Tone: Nominal 400Hz Dial Tone At -10 dBV
Dial Tone Cadence 1 Oscillator 1 Frequency: 400 Hz
Dial Tone Cadence 1 Oscillator 1 Level: -10 dB
Dial Tone Cadence 1 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 1 Oscillator 2 Level: -70 dB
Dial Tone Cadence 1 On Period: 100m Secs
Dial Tone Cadence 1 Off Period: 0 Secs
Dial Tone Cadence 2 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 2 Oscillator 1 Level: -70 dB
Dial Tone Cadence 2 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 2 Oscillator 2 Level: -70 dB
Dial Tone Cadence 2 On Period: 0 Secs
Dial Tone Cadence 2 Off Period: 0 Secs
Dial Tone Cadence 3 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 3 Oscillator 1 Level: -70 dB
Dial Tone Cadence 3 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 3 Oscillator 2 Level: -70 dB
Dial Tone Cadence 3 On Period: 0 Secs
Dial Tone Cadence 3 Off Period: 0 Secs
Dial Tone Cadence 4 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 4 Oscillator 1 Level: -70 dB
Dial Tone Cadence 4 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 4 Oscillator 2 Level: -70 dB

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.2.2, DTMF Signalling Levels & Clause 4.8.2.3, Unwanted Frequency Components

ID	4232	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the EUT sends appropriate DTMF signals at the required signalling levels				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Clause 4.8.2.2 and Clause 4.8.2.3: 2300 Ohms, Normal Polarity				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:21:03	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Dial Tone Cadence 4 On Period: 0 Secs
Dial Tone Cadence 4 Off Period: 0 Secs
Dial Tone Cadence 5 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 5 Oscillator 1 Level: -70 dB
Dial Tone Cadence 5 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 5 Oscillator 2 Level: -70 dB
Dial Tone Cadence 5 On Period: 0 Secs
Dial Tone Cadence 5 Off Period: 0 Secs
Dial Tone dB reference: dBV
Generate Dial Tone Continuously: 1 (0 = Cadenced, 1 = Continuous)
Do Not Generate Dial Tone 0 (0 = Generate Dial Tone, 1 = Do Not Generate Dial Tone)
Turn Off Dial Tone After First Digit Is Dialled: 1 (0 = Do Not Turn Off Dial Tone, 1 = Turn Off Dial Tone)
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Dial Tone Levels Between -48dB and -37dB: 2.75 dB
Dial Tone Levels Between -37dB and -10dB: 1 dB
Dial Tone Levels Above -10dB: 0.4 dB
Dial Tone Frequencies: 0.1155%
Dial Tone Cadence Timings: 0.1155%
Measured DTMF Timings: 76.21u Secs
Measured DTMF Frequencies: 0.5774Hz
Worst Case DTMF Power Level: 0.14 dB
Unwanted DTMF Power Level: 3.82 dB

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.8.2.4, DTMF Tone Duration & Clause 4.8.2.5, DTMF Pause Duration					
ID	4233	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the TE sends DTMF signals with the appropriate pauses				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Clause 4.8.2.4 and Clause 4.8.2.5: DTMF Tone and Pause Duration				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:28:49	**Temp** (℃)	25	**Humidity (%)**	56
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass

Test Condition 1, Clause 4.8.2.4 and Clause 4.8.2.5: DTMF Tone and Pause Duration

DC Feed Voltage: 50 Vdc, Feed Resistance 850 Ohms, Feed Circuit Polarity: Normal Polarity
Terminating Impedance 270R+(750R//0.15uF)

Expected EUT To Dial: 1234567890*#, EUT Dialled: 1234567890*#
Dialled Digit Status: **Pass**

DTMF Tone Duration Must Be>= 65m Secs
Interdigit Pause Duration Must Be>= 65m Secs

DTMF Digit Timing

Digits	Tone (S)	Status	Pause (S)	Status
1	0.1002	Pass	0.1001	Pass
2	0.1005	Pass	97.65m	Pass
3	93m	Pass	91.93m	Pass
4	94.73m	Pass	97.33m	Pass
5	97m	Pass	0.1019	Pass
6	96.73m	Pass	96.4m	Pass
7	96.8m	Pass	94m	Pass
8	97.8m	Pass	94.47m	Pass
9	97.27m	Pass	99.2m	Pass
0	97.33m	Pass	97.2m	Pass
*	96.27m	Pass	93.8m	Pass
#	96.07m	Pass	96.8m	Pass
7	96.2m	Pass		

Tone Duration Status: **Pass**
Interdigit Duration Status: **Pass**

Test Condition Status: Pass

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.8.2.4, DTMF Tone Duration & Clause 4.8.2.5, DTMF Pause Duration					
ID	4233	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the TE sends DTMF signals with the appropriate pauses				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Clause 4.8.2.4 and Clause 4.8.2.5: DTMF Tone and Pause Duration				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:28:49	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

TestCondition 1

Test Description: Clause 4.8.2.4 and Clause 4.8.2.5: DTMF Tone and Pause Duration
DC Feed Voltage: 50 Vdc
DC Feed Current: 100m A
Set Feed Current As Priority: 0 (0= No Priority, 1 = Priority)
Feed Resistance: 850 Ohms
Set Feed Resistance As Priority: 1 (0 = No Priority, 1= Priority)
Feed Circuit Polarity: Normal Polarity
Feed Circuit Inductance Per Leg: 10H
Feed Bridge DC Block Capacitance Per Leg: 500u F
EUT Is Off Hook When Loop Current Exceeds: 12.8m A
Terminating Impedance Rs: 270 Ohms
Terminating Impedance Rp: 750 Ohms
Terminating Impedance Cp: 0.15u F
Terminating Impedance: 270R+(750R//0.15uF)
Artificial Line Used During Test: None
Connect External Analyser During Test: 0 (0 = Do Not Connect, 1 = Connect)
Test DTMF Coding And Frequencies: 0 (0 = Do Not Test, 1 = Test)
Tone Duration Must Be >= 65m Secs
Test Minimum Tone Duration Limit: 1 (0=Do Not Test, 1 = Test)
Test Maximum Tone Duration Limit: 0 (0 = Do Not Test, 1 = Test)
Interdigit (Pause) Duration Must Be >= 65m Secs
Test Interdigit (Pause) Duration Minimum Limit: 1 (0 = Do Not Test, 1 = Test)
Test Interdigit (Pause) Duration Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duration of Tone + Interdigit (Pause) Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duration of Tone + Interdigit (Pause) Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duty Cycle (Tone/Pause) Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Duty Cycle (Tone/Pause) Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Threshold For Tone Timing Measurements: 90 % Of Maximum Tone Amplitude
Threshold For Pause Timing Measurements: 10 % Of Maximum Tone Amplitude
Units Used For Tone Level Measurements dBV
Test High Group Minimum Level Limit: 0 (0 = Do Not Test, 1 = Test)
Test High Group Maximum Level Limit: 0 (0 = Do Not Test, 1 = Test)
Test Low Group Minimum Level Limit: 0 (0 = Do Not Test, 1 = Test)
Test Low Group Maximum Level Limit: 0 (0 = Do Not Test, 1 = Test)
Test Combined Tone Level Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Combined Tone Level Maximum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Pre-emphasis (Twist) Minimum Limit: 0 (0 = Do Not Test, 1 = Test)
Test Pre-emphasis (Twist) Maximum Limit: 0 (0 = Do Not Test, 1 = Test)

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.2.4, DTMF Tone Duration & Clause 4.8.2.5, DTMF Pause Duration

ID	4233	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the TE sends DTMF signals with the appropriate pauses				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Clause 4.8.2.4 and Clause 4.8.2.5: DTMF Tone and Pause Duration				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:28:49	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

Test Total Unwanted Power: 0 (0 = Do Not Test, 1 = Test)
Test Power Levels Of Individual Unwanted Frequency Components: 0 (0 = Do Not Test, 1 = Test)
Unwanted Power Levels Limits Are: Relative To Low Group Tone Level
Units Used For Measured Power During Interdigit Pause: dBV
Test Power Level During Interdigit Pause: 0 (0 = Do Not Test, 1 = Test)
Measured Power Level During Interdigit Pause: 1 (0 = Maximum Level Of Individual Frequencies, 1 = Total Power Level In Band)
Test Rise Time: 0 (0 = Do Not Test, 1 = Test)
Test Fall Time: 0 (0 = Do Not Test, 1 = Test)
Enable Special Features: 0 (0 = Do Not Enable, 1 = Enable)
Applied Dial Tone: Nominal 400Hz Dial Tone At -10 dBV
Dial Tone Cadence 1 Oscillator 1 Frequency: 400 Hz
Dial Tone Cadence 1 Oscillator 1 Level: -10 dB
Dial Tone Cadence 1 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 1 Oscillator 2 Level: -70 dB
Dial Tone Cadence 1 On Period: 100m Secs
Dial Tone Cadence 1 Off Period: 0 Secs
Dial Tone Cadence 2 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 2 Oscillator 1 Level: -70 dB
Dial Tone Cadence 2 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 2 Oscillator 2 Level: -70 dB
Dial Tone Cadence 2 On Period: 0 Secs
Dial Tone Cadence 2 Off Period: 0 Secs
Dial Tone Cadence 3 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 3 Oscillator 1 Level: -70 dB
Dial Tone Cadence 3 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 3 Oscillator 2 Level: -70 dB
Dial Tone Cadence 3 On Period: 0 Secs
Dial Tone Cadence 3 Off Period: 0 Secs
Dial Tone Cadence 4 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 4 Oscillator 1 Level: -70 dB
Dial Tone Cadence 4 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 4 Oscillator 2 Level: -70 dB
Dial Tone Cadence 4 On Period: 0 Secs
Dial Tone Cadence 4 Off Period: 0 Secs
Dial Tone Cadence 5 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 5 Oscillator 1 Level: -70 dB
Dial Tone Cadence 5 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 5 Oscillator 2 Level: -70 dB
Dial Tone Cadence 5 On Period: 0 Secs
Dial Tone Cadence 5 Off Period: 0 Secs
Dial Tone dB reference: dBV
Generate Dial Tone Continuously: 1 (0 = Cadenced, 1 = Continuous)

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.8.2.4, DTMF Tone Duration & Clause 4.8.2.5, DTMF Pause Duration					
ID	4233	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether the TE sends DTMF signals with the appropriate pauses				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Clause 4.8.2.4 and Clause 4.8.2.5: DTMF Tone and Pause Duration				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:28:49	**Temp** (℃)	25	**Humidity (%)**	56

Test Details

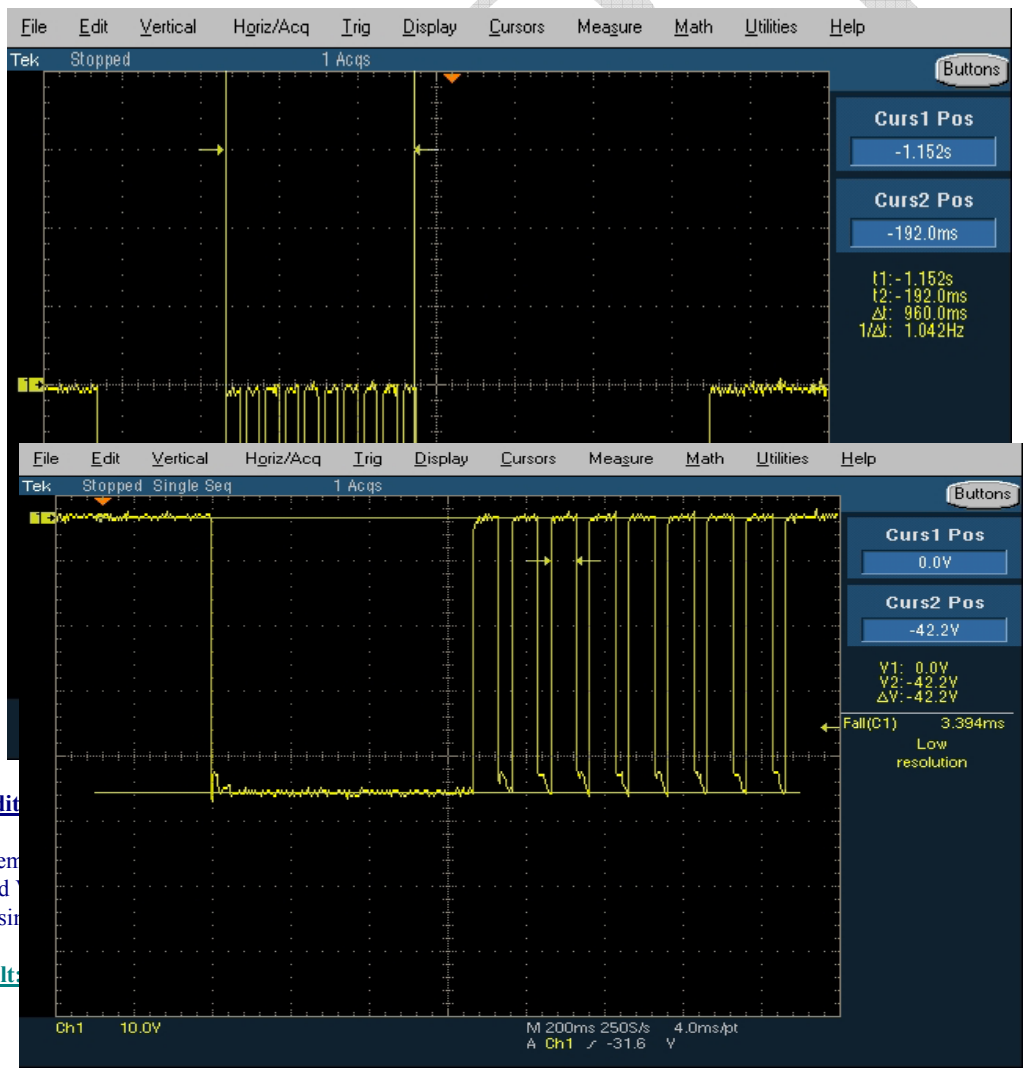
Do Not Generate Dial Tone 0 (0 = Generate Dial Tone, 1 = Do Not Generate Dial Tone)
Turn Off Dial Tone After First Digit Is Dialled: 1 (0 = Do Not Turn Off Dial Tone, 1 = Turn Off Dial Tone)
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Dial Tone Levels Between -48dB and -37dB: 2.75 dB
Dial Tone Levels Between -37dB and -10dB: 1 dB
Dial Tone Levels Above -10dB: 0.4 dB
Dial Tone Frequencies: 0.1155%
Dial Tone Cadence Timings: 0.1155%
Measured DTMF Timings: 76.21u Secs
Measured DTMF Frequencies: 0.5774Hz
Worst Case DTMF Power Level: 0.13 dB
Unwanted DTMF Power Level: 5.79 dB

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.8.3, Pulse dialling					
ID	4234	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To confirm that the TE supplier should provide information on how to select the LD mode and how to set any relevant user accessible parameters.				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	During the dialling condition.				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:34:32	**Temp(℃)**	**25**	**Humidity(%)**	**56**
		Tested With Auto Test Run (EUT Master): No			

Test Result

Overall Test Status: Pass



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Test Result:

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)			
Clause 4.8.3, Pulse dialling			
ID	4234	**Job No**	1000273
Customer	Xingtel Xiamen Electronics Co.,Ltd		
Product	Corded Phone		
Specification	ETSI ES203021-3 v2.1.2 January 2006		
Purpose Of Test	To confirm that the TE supplier should provide information on how to select the LD mode and how to set any relevant user accessible parameters.		
EUT Details	Sample Number: 0001, Modification State: 00		
Operating State	During the dialling condition.		
Test Class			
Date & Tim			

Test Condit

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DC Feed
The loop

Test Result:

Test Condit

Measurem
DC Feed
The break

Test Result:

Test Condition 4, Loop State to pulse dialling

Measurement Type: pulse dialling
DC Feed Voltage: 50 Vdc, DC Feed Resistance: 1.0k Ohms
The break period is 69%.

Test Result: Pass

Test Condition 5, Loop State to pulse dialling

Measurement Type: pulse dialling
DC Feed Voltage: 50 Vdc, DC Feed Resistance: 1.0k Ohms
The transition from break to make is completed within 2 ms.
The pulse shape comply with the characteristics of the TE.

Test Result: Pass

Test Condition 6, Loop State to pulse dialling

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.2 Pulse dialling

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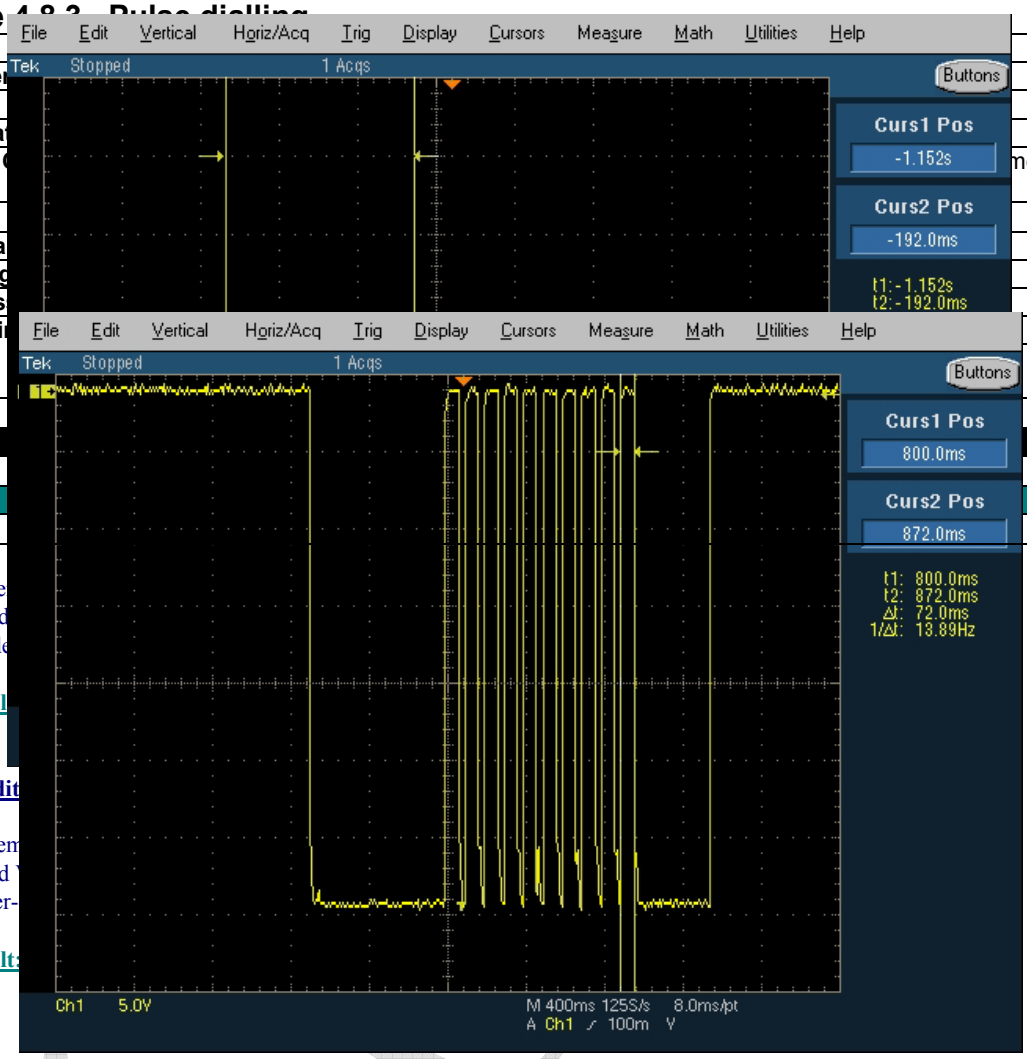

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Test Result:

Test Condition 8, Loop State to pulse dialling

Measurement Type: pulse dialling
DC Feed Voltage: 50 Vdc, DC Feed Resistance: 1.0k Ohms
The pre-digit and post-digit pulse comply with the characteristics of the TE.

Test Result: Pass

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.8.4, Recall Signal						
ID	4235	**Job No**		1000273		
Customer	Primatronix Ltd					
Product	Telephone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To confirm that the characteristics of the recall signal meet the requirements of the specification.					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Test Condition 1: Recall Signal, Normal Polarity					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 15:45:28	**Temp(℃)**	**25**	**Humidity(%)**	**56**	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass

Test Condition, Loop State

Measurement Type: On Hook To Off Hook
DC Feed Voltage: 50 Vdc, DC Feed Resistance: 1.0k Ohms
The break period shall be measured from the point where the current has fallen to 10% below the loop condition current to the point where the break current has increased to above 1mA from its lowest value: 100.5 mSecs
The break period current is less than 1mA.
The transition from break to make is completed within 2 ms.
The pulse shape comply with the characteristics of the TE

Test Result: Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.8.5, Call attempt on a low voltage line						
ID	4236	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To check whether, after seizure, the EUT starts dialling within the allowed period after the start of the dial tone.					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Type Of EUT: Loop Disconnect (Pulse) Dialling - Digit n = n pulses (normal coding), Test Condition : Dial Tone: 300Hz, -0.7dBV, Continuous					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 15:56:11	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass

Test Condition , Dial Tone: 300Hz, -0.7dBV, Continuous

Applied Dial Tone: ES 203021-3 Continuous 300Hz Dial Tone At -0.7dBV
DC Feed Voltage: 38 Vdc, DC Feed Resistance: 750 Ohms
Dial Tone Applied 1 Secs After Line Seizure
EUT Must Dial Within 8 Secs After Start Of Dial Tone

Summary Of Telephone Numbers Dialled	**Attempts**
123456	1

Call Details	**Status**
Call Attempt Number 1	
EUT Seized Telephone Line At: 15:34:32 AM	
EUT Dialled Telephone Number: 1	
EUT Started Dialling 5.699 Secs After Start Of Dial Tone	**Pass**

Test Condition Status: Pass

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.8.5, Call attempt on a low voltage line					
ID	4236	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether, after seizure, the EUT starts dialling within 8 seconds with a low voltage line.				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Type Of EUT: Loop Disconnect (Pulse) Dialling - Digit n = n pulses (normal coding), Test Condition : Dial Tone: 300Hz, -0.7dBV, Continuous				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:56:11	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition

Test Description: Dial Tone: 300Hz, -0.7dBV, Continuous
DC Feed Voltage: 38 Vdc
DC Feed Current: 100m A
Set DC Feed Current As Priority: 0 (0 = Do not set, 1 = set)
Feed Resistance: 750 Ohms
Set Feed Resistance As Priority 1 (0 = Do Not Set, 1 = Set)
Feed Circuit Polarity: Normal Polarity
Feed Circuit Inductance Per Leg: 10H
EUT Is Off Hook When Loop Current Exceeds: 5m A
Terminating Impedance Rs: 270 Ohms
Terminating Impedance Rp: 750 Ohms
Terminating Impedance Cp: 0.15u F
Terminating Impedance: 270R+(750R//0.15uF)
Apply Line Seizure & Dialling Tests: 1 (0 = Do Not Apply, 1 = Apply)
Type Of Dialling Test: EUT Must Dial
Applied Dial Tone: ES 203021-3 Continuous 300Hz Dial Tone At -0.7dBV
Time To Apply Dial Tone: Dial Tone Applied 1 Secs After Line Seizure
Turn Off Dial Tone: 0 (0 = Dial Tone Generated, 1 = No Dial Tone Generated)
Dial Tone Level Adjusted By: 0 dB
Apply EUT Must Not Dial Limit: 0 (0 = Do Not Apply, 1 = Apply)
EUT Must Dial Limits: EUT Must Dial Within 8 Secs After Start Of Dial Tone
Apply EUT Must Dial Limit: 1 (0 = Do Not Apply, 1 = Apply)
Apply Line Release Tests: 0 (0 = Do Not Apply, 1 = Apply)
Turn Off Call Progress Tone: 0 (0 = Call Progress Tone Turned On, 1 = Call Progress Tone Turned Off)
Call Progress Tone Level Adjusted By: 0 dB
Apply Repeat Attempts Tests: 0 (0 = Do Not Apply, 1 = Apply)
Applied Dial Tone: TBR21 Continuous 300Hz Dial Tone At -0.7dBV
Dial Tone Cadence 1 Oscillator 1 Frequency: 300 Hz
Dial Tone Cadence 1 Oscillator 1 Level: -0.7 dB
Dial Tone Cadence 1 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 1 Oscillator 2 Level: -70 dB
Dial Tone Cadence 1 On Period: 100m Secs
Dial Tone Cadence 1 Off Period: 0 Secs
Dial Tone Cadence 2 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 2 Oscillator 1 Level: -70 dB
Dial Tone Cadence 2 Oscillator 2 Frequency: 0 Hz

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.5, Call attempt on a low voltage line

ID	4236	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether, after seizure, the EUT starts dialling within 8 seconds with a low voltage line.				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Type Of EUT: Loop Disconnect (Pulse) Dialling - Digit n = n pulses (normal coding), Test Condition : Dial Tone: 300Hz, -0.7dBV, Continuous				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:56:11	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Dial Tone Cadence 2 Oscillator 2 Level: -70 dB
Dial Tone Cadence 2 On Period: 0 Secs
Dial Tone Cadence 2 Off Period: 0 Secs
Dial Tone Cadence 3 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 3 Oscillator 1 Level: -70 dB
Dial Tone Cadence 3 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 3 Oscillator 2 Level: -70 dB
Dial Tone Cadence 3 On Period: 0 Secs
Dial Tone Cadence 3 Off Period: 0 Secs
Dial Tone Cadence 4 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 4 Oscillator 1 Level: -70 dB
Dial Tone Cadence 4 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 4 Oscillator 2 Level: -70 dB
Dial Tone Cadence 4 On Period: 0 Secs
Dial Tone Cadence 4 Off Period: 0 Secs
Dial Tone Cadence 5 Oscillator 1 Frequency: 0 Hz
Dial Tone Cadence 5 Oscillator 1 Level: -70 dB
Dial Tone Cadence 5 Oscillator 2 Frequency: 0 Hz
Dial Tone Cadence 5 Oscillator 2 Level: -70 dB
Dial Tone Cadence 5 On Period: 0 Secs
Dial Tone Cadence 5 Off Period: 0 Secs
Dial Tone dB reference: dBV
Generate Dial Tone Continuously: 1 (0 = Cadenced, 1 = Continuous)
Call Progress Tone Cadence 1 Oscillator 1 Frequency: 400 Hz
Call Progress Tone Cadence 1 Oscillator 1 Level: -10 dB
Call Progress Tone Cadence 1 Oscillator 2 Frequency: 0 Hz
Call Progress Tone Cadence 1 Oscillator 2 Level: -70 dB
Call Progress Tone Cadence 1 On Period: 0.5 Secs
Call Progress Tone Cadence 1 Off Period: 0.5 Secs
Call Progress Tone Cadence 2 Oscillator 1 Frequency: 0 Secs
Call Progress Tone Cadence 2 Oscillator 1 Level: -70 dB
Call Progress Tone Cadence 2 Oscillator 2 Frequency: 0 Hz
Call Progress Tone Cadence 2 Oscillator 2 Level: -70 dB
Call Progress Tone Cadence 2 On Period: 0 Secs
Call Progress Tone Cadence 2 Off Period: 0 Secs
Call Progress Tone Cadence 3 Oscillator 1 Frequency: 0 Hz
Call Progress Tone Cadence 3 Oscillator 1 Level: -70 dB
Call Progress Tone Cadence 3 Oscillator 2 Frequency: 0 Hz
Call Progress Tone Cadence 3 Oscillator 2 Level: -70 dB
Call Progress Tone Cadence 3 On Period: 0 Secs

COPY

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)

Clause 4.8.5, Call attempt on a low voltage line

ID	4236	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To check whether, after seizure, the EUT starts dialling within 8 seconds with a low voltage line.				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Type Of EUT: Loop Disconnect (Pulse) Dialling - Digit n = n pulses (normal coding), Test Condition : Dial Tone: 300Hz, -0.7dBV, Continuous				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 15:56:11	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

Call Progress Tone Cadence 3 Off Period: 0 Secs
Call Progress Tone Cadence 4 Oscillator 1 Frequency: 0 Hz
Call Progress Tone Cadence 4 Oscillator 1 Level: -70 dB
Call Progress Tone Cadence 4 Oscillator 2 Frequency: 0 Hz
Call Progress Tone Cadence 4 Oscillator 2 Level: -70 dB
Call Progress Tone Cadence 4 On Period: 0 Secs
Call Progress Tone Cadence 4 Off Period: 0 Secs
Call Progress Tone Cadence 5 Oscillator 1 Frequency: 0 Hz
Call Progress Tone Cadence 5 Oscillator 1 Level: -70 dB
Call Progress Tone Cadence 5 Oscillator 2 Frequency: 0 Hz
Call Progress Tone Cadence 5 Oscillator 2 Level: -70 dB
Call Progress Tone Cadence 5 On Period: 0 Secs
Call Progress Tone Cadence 5 Off Period: 0 Secs
Call Progress Tone dB Reference: dBV
Generate Call Progress Tone As A Continuous Tone: 0 (0 = Cadenced, 1 = Continuous)
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured EUT Timings: 57.74m Secs
Tone Levels Between -48dB and -37dB: 2.75 dB
Tone Levels Between -37dB and -10dB: 1 dB
Tone Levels Above -10dB: 0.4 dB
Tone Frequencies: 0.1155%
Tone Cadence Timings: 0.1155%

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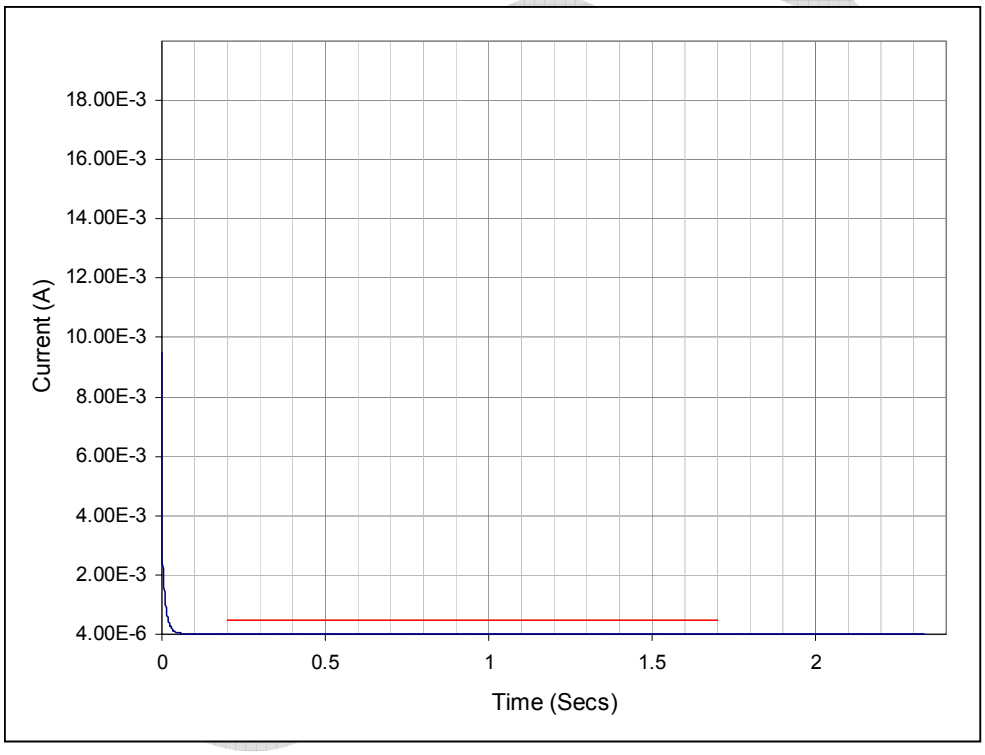
Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)						
Clause 4.9, Transition From Loop To Quiescent State						
ID	4237	**Job No**		1000273		
Customer	Xingtel Xiamen Electronics Co.,Ltd					
Product	Corded Phone					
Specification	ETSI ES203021-3 v2.1.2 January 2006					
Purpose Of Test	To determine whether the TE changes correctly from the loop to the quiescent state					
EUT Details	Sample Number: 0001, Modification State: 00					
Operating State	Test Condition 1: Transition From Loop To Quiescent State					
Test Class	Formal Test	**Engineer**		Jack		
Date & Time	Mon 07/Dec/2009 16:21:55	**Temp(℃)**	25	**Humidity(%)**	56	
		Tested With Auto Test Run (EUT Master): No				

Test Result

Overall Test Status: Pass



Test Condition 1, Transition From Loop To Quiescent State

Measurement Type: Off Hook To On Hook
DC Feed Voltage: 50 Vdc, Normal Polarity, DC Feed Resistance: 2.05k Ohms
t1 - t0 (Time To Reach First Test Limit Point): 39.36m Secs
Loop Current Exceeded Upper Test Limit Max For A Total Aggregated Period Of 0 Secs
Status Against Upper Test Limits **Pass**

Test Condition Status Pass

Testing Conducted By: Bay Area Compliance Laboratories Corp. (BACL)					
Clause 4.9, Transition From Loop To Quiescent State					
ID	4237	**Job No**		1000273	
Customer	Xingtel Xiamen Electronics Co.,Ltd				
Product	Corded Phone				
Specification	ETSI ES203021-3 v2.1.2 January 2006				
Purpose Of Test	To determine whether the TE changes correctly from the loop to the quiescent state				
EUT Details	Sample Number: 0001, Modification State: 00				
Operating State	Test Condition 1: Transition From Loop To Quiescent State				
Test Class	Formal Test	**Engineer**		Jack	
Date & Time	Mon 07/Dec/2009 16:21:55	**Temp(℃)**	25	**Humidity(%)**	56

Test Details

TestCondition 1

Test Description: Transition From Loop To Quiescent State
DC Feed Voltage: 50 Vdc
Feed Resistance: 2.05k Ohms
Feed Polarity Normal Polarity
Type Of Test: Off Hook To On Hook
After Configuring Test Wait 5 Secs Before Starting Test
EUT Must Release Line Within 30 Secs Of A Power Failure
Reference Point For Line Seizure/Line Release 10m A
Reference Point For Line Seizure/Line Release Qualification Time: 20m Secs
Apply Test Limit For EUT Current To Be Within Limit Mask: 0 (0 = Do Not Apply, 1 = Apply)
Qualification Time For EUT Current Being Within Limit Mask: 0 Secs
Maximum (aggregated) Time That EUT Current Is Allowed Outside Mask Limits: 20m Secs
Apply Lower Test Limits: 0 (0 = do not use, 1= use)
Apply Upper Test Limits: 1 (0 = do not use, 1= use)
For Upper Test Limts: , Please see test results
For Lower Test Limts: , Please see test results
Measurement Uncertainty Information
Expanded Uncertainty, Coverage Factor K=2
Measured Current Within 20% Of Lower Test Limits Lowest Limit Point: N/A
Measured Current Within 20% Of Lower Test Limits Highest Limit Point: N/A
Measured Current Within 20% Of Upper Test Limits Lowest Limit Point: 3.713%
Measured Current Within 20% Of Upper Test Limits Highest Limit Point: 3.713%
Measured Timing: 0.105mSecs

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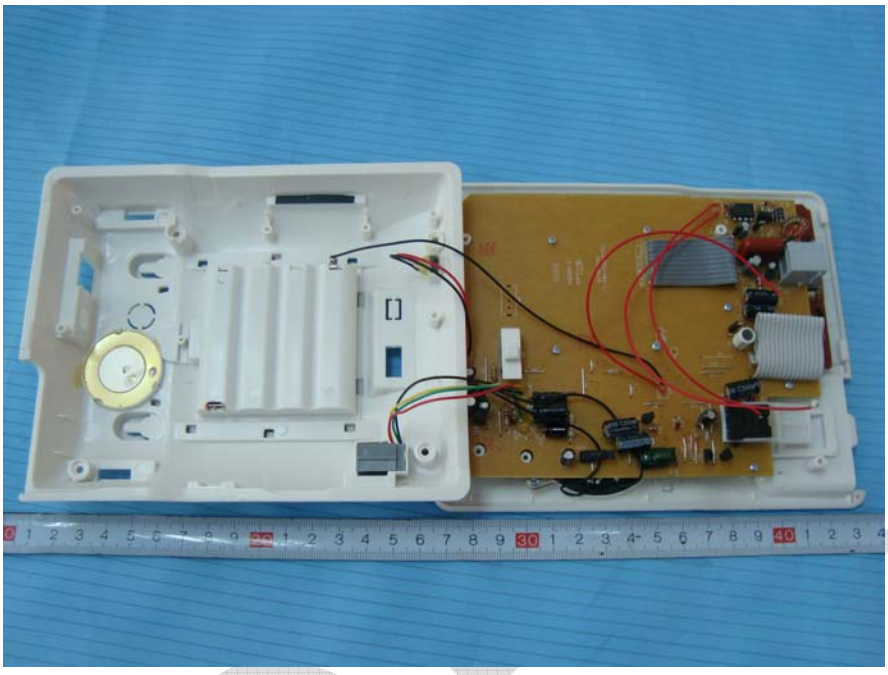
EXHIBIT A - EUT PHOTOGRAPHS

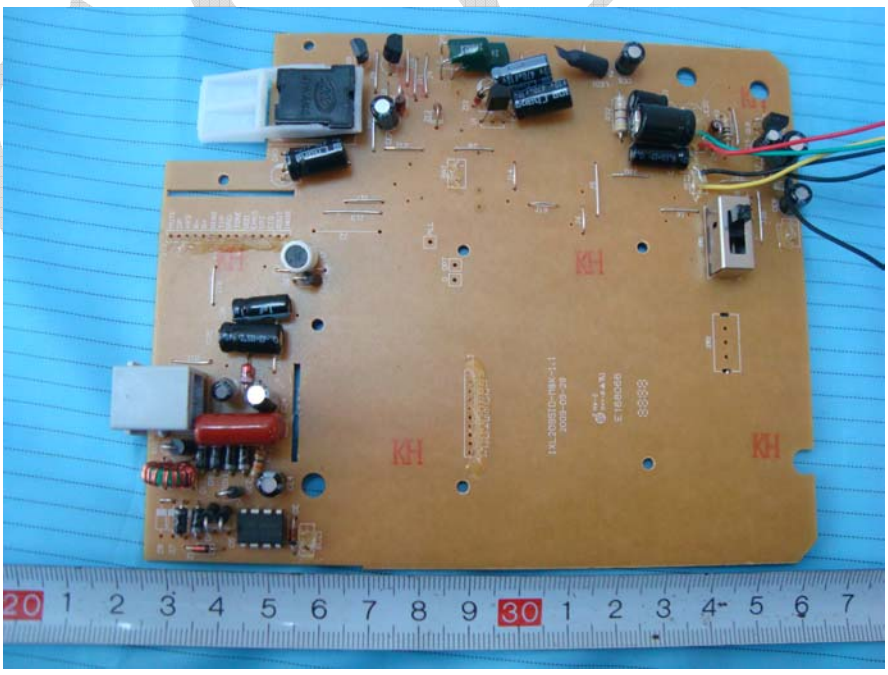
EUT – Top View

EUT – Bottom View

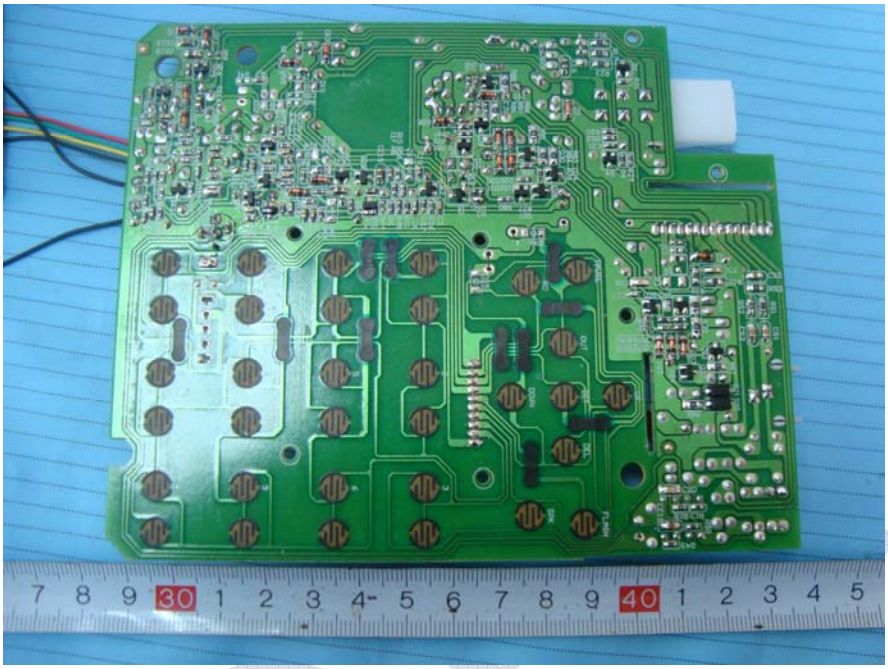
EUT – Cover off View



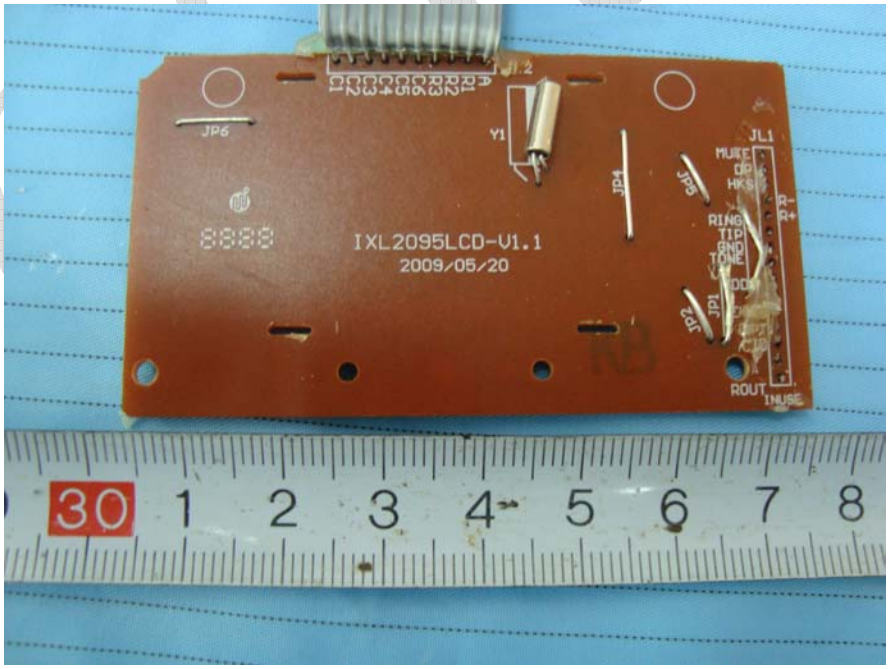
EUT – Main Board Top View



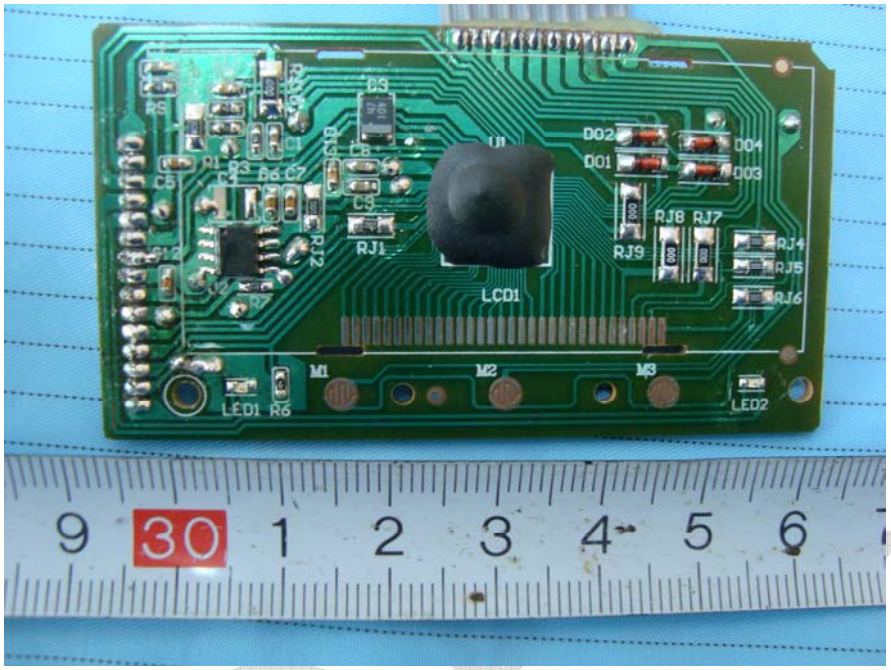
EUT –Main Board Bottom View



EUT – LCD Board Top View



EUT – LCD Board Bottom View



Declaration Letter

xingtel
XINGTEL XIAMEN ELECTRONICS CO., LTD.
Xingtel Building, Chuangxin Road, Torch Hi-Tech Industrial District, Xiamen 361006, PR China
E-mail: info@xingtel.com Website: http://www.xingtel.com
Tel: +86-592-562-5929
+86-592-603 6442
Fax: +86-592-603-7860

To: Bay Area Compliance Laboratories Corp

Declaration of Similarity

To whom it may concern,

We,
Xingtel Xiamen Electronics Co., Ltd.
Address: Xingtel Building, Chuangxin Road, Torch Hi-tech Industrial District, Xiamen, 361006, China

Hereby declare that
Product Name: Corded Phone
Model No. TK4040
belong to TESAN ILETISIM A.S. with the trade name is TTEC PLUS, it is exactly same with the telephone model no. **XL-2095IDM**, and belong to **Xingtel**. These two models are electrically and mechanically identical, The only difference between them is the model name!

Regards,
Xingtel Xiamen Electronics Co., Ltd.

Simon Liu
Director
November 3, 2009

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APPENDIX B - EUT BLOCK DIAGRAM/SCHEMATICS/PARTS LIST

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APPENDIX C - USERS MANUAL

******End of Report******